Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 7, 2020

MR WES HEINLEIN SEADRIFT OPERATIONS DIRECTOR UNION CARBIDE CORPORATION PO BOX 186 BLDG 1 PORT LAVACA TX 77979-0186

Re: Draft Federal Operating Permit Approval and Public Notice Authorization

Renewal

Permit Number: O2027 Union Carbide Corporation

Energy Systems

Seadrift, Calhoun County

Regulated Entity Number: RN102181526 Customer Reference Number: CN601688781

Dear Mr. Heinlein:

The executive director has completed the technical review of your application as required by the Texas Clean Air Act (TCAA) § 382.0517, as codified in the Texas Health and Safety Code, and has determined that the above-referenced application is administratively complete on November 26, 2019. This letter provides notice of the following:

- instructions describing how to publish notice for the draft permit; and
- the executive director's proposed final action is to submit a draft federal operating permit (FOP), which serves as a proposed permit, to the U.S. Environmental Protection Agency (EPA) for EPA review to run concurrently with the public notice comment period, unless public comments are received or the executive director grants a hearing request. If EPA review is not concurrent, the EPA review period shall begin no earlier than the close of the public comment period or date of the hearing.

The Form OP-ACPS (Application Compliance Plan and Schedule) submitted with the permit application is still valid for all applicable requirements in the attached draft operating permit, including new source review authorizations. If the Form OP-ACPS is no longer correct for any reason, please submit updated Form OP-ACPS, including an updated compliance plan to Mr. Kal Murthy, Air Permits Division. This updated compliance plan must be approved by the Texas Commission Environmental Quality (TCEQ) and added to the FOP before publication.

Mr. Wes Heinlein Page 2 May 7, 2020

Public Notice

The TCEQ has prepared a draft permit for your final review and approval. The draft permit and statement of basis are available at the TCEQ Website:

www.tceq.texas.gov/goto/tvnotice

You are now required to publish notice for the draft permit. To help you meet the requirements associated with this notice, we have enclosed the following items:

- Instructions for Public Notice
- Public Notice Checklist
- Notice for Newspaper Publication and Sign Posting
- Affidavit of Publication for Air Permitting (Form TCEQ-20479) and Alternative Language Affidavit of Publication for Air Permitting (Form TCEQ-20480)

Please note that it is **very important** that you follow **all** directions in the enclosed instructions. If you do not, you may be required to republish the notice. A common mistake is the unauthorized changing of notice wording or font. If you have any questions, please contact us before you proceed with publication.

A "Public Notice Checklist" is enclosed which notes the time limitations for each step of the public notice process. This checklist should be used as a tool in conjunction with the enclosed, detailed instructions.

EPA Review

In accordance with Title 30 Texas Administrative Code § 122.350 (30 TAC § 122.350), the procedural requirements of 30 TAC § 122.320 of this title (relating to Public Notice), 30 TAC § 122.322 of this title (relating to Bilingual Public Notice), and the requirements for EPA review under this section may run concurrently. However, if any person submits comments, or the executive director grants a hearing request, the requirement for EPA review may not run concurrently with the period for public notice. If comments are received, the executive director will submit the comments, responses, to the comments a proposed permit and a statement of basis to the EPA and shall restart the 45-day EPA review.

If the EPA does not file an objection to a proposed FOP, or the objection is resolved, the TCEQ will issue the FOP. Any person affected by the decision of the TCEQ, including the applicant, may petition the EPA in accordance with TCAA § 382.0563, as codified in the Texas Health and Safety Code, and 30 TAC § 122.360 within 60 days of the expiration of the EPA's 45-day review period. The petition shall be based only on objections to the permit raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such objections within the public comment period, or the grounds for such objections arose after the public comment period. Additional requirements for the content and formatting of petitions are specified in Title 40 Code of Federal Regulations Part 70 (40 CFR § 70.12).

The EPA may only object to the issuance of any proposed permit that is not in compliance with the applicable requirements or the requirements of this chapter. The 60-day public petition period will begin on the day after the last day of the EPA review period. Public petitions should be submitted to the TCEQ,

Mr. Wes Heinlein Page 3 May 7, 2020

the applicant and the EPA. Instructions on submitting a public petition to the EPA are available at the EPA website:

https://www.epa.gov/title-v-operating-permits/title-v-petitions

Public petitions should be submitted to the TCEQ at the following address:

Texas Commission Environmental Quality Attn: Mr. Samuel Short, Director Air Permits Division, MC-163 P.O. Box 13087 Austin, Texas 78711-3087

The TCEQ will make the draft FOP, the statement of basis, FOP application, compliance certification, and if applicable, the compliance plan and monitoring reports available to the public, EPA, and to the affected states and local programs as needed. If you do not comply with **all** requirements described in the instructions, further processing of your application may be suspended and your application voided, or the agency may take other action.

Thank you for your cooperation in this matter. If you have any questions regarding publication requirements, please contact the Office of the Chief Clerk at (512) 239-3300. If you have any other questions, please contact Mr. Kal Murthy at (512) 239-3107.

Sincerely,

Jesse E. Chacon, P.E., Manager

Operating Permits Section

Air Permits Division

Texas Commission on Environmental Quality

asse & Chacon

cc: Mr. Danish Khan, Air Permit Manager, Union Carbide Corporation, Lake Jackson Ms. Brooke Barnes, Responsible Care Leader, Dow Texas Operations - Freeport, Port Lavaca Air Section Manager, Region 14 - Corpus Christi

Project Number: 29740

Public Notice Checklist

Notice of Draft Federal Operating Permit (Title V Notice)

The following tasks must be completed for public notice. If publication in an alternative language is required, please complete the tasks for both the English and alternative language publications. Detailed instructions are included in the "Instructions for Public Notice" section of this package.

Within 30 calendar days after date of this letter

Publish *Notice of Draft Federal Operating Permit* in "public notice" section of newspaper. Review for accuracy prior to publishing.

As part of the expedited permitting process, it is recommended that you publish immediately.

Provide copy of complete application, including any subsequent revisions, statement of basis, and the draft permit at a public place for review and copying. Keep them there for duration of the designated comment period. Prepare signs.

First day of newspaper publication

Review published newspaper notice for accuracy.

Post signs and keep them up for duration of the designated comment period.

Ensure copy of complete application, including any subsequent revisions, statement of basis, and the draft permit are at the public place.

Within 2 business days after date of publication

Fax proof of publication to Mr. Kal Murthy in Air Permits Division at 512-239-1300 or send it by e-mail to Kal.Murthy@tceq.texas.gov.

Within 10 business days after date of publication

Mail proof of publication showing publication date and newspaper name to:

Texas Commission on Environmental Quality

Office of the Chief Clerk, MC-105

Attn: Notice Team / AIR Expedited Permitting

P.O. Box 13087

Austin, Texas 78711-3087

Mail photocopies of proof of publication showing publication date and newspaper name to TCEQ Regional Office and each local program with jurisdiction over your site.

Within 30 calendar days after date of publication

Mail original affidavit of publication for air permitting and alternative language affidavit of publication for air permitting (if applicable) to:

Texas Commission on Environmental Quality

Office of the Chief Clerk, MC-105

Attn: Notice Team / AIR Expedited Permitting

P.O. Box 13087

Austin, Texas 78711-3087

Mail photocopies of affidavits to Mr. Kal Murthy in Air Permits Division.

Within 10 business days after end of the designated comment period

Mail Public Notice Verification Form and Form OP-CRO1 to:

Texas Commission on Environmental Quality

Office of the Chief Clerk, MC-105

Attn: Notice Team / AIR Expedited Permitting

P.O. Box 13087

Austin, Texas 78711-3087

Mail photocopies of Public Notice Verification Form and Form OP-CRO1 to Mr. Kal Murthy in Air Permits Division.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



Instructions for Public Notice For Federal Operating Permit

Notice of Draft Federal Operation Permit

We have completed the technical review of your application and have prepared a draft federal operating permit (FOP) for public notice. The draft FOP and statement of basis are available at the Texas Commission on Environmental Quality (TCEQ or Commission) Website:

www.tceq.texas.gov/goto/tvnotice

You must comply with the following instructions:

Draft Permit Review

The draft FOP is available for your final review and approval. During technical review of the application, the permit reviewer coordinated with you or your technical contact to address and resolve any outstanding issues. Contact the permit reviewer listed in the cover letter immediately if you have any questions related to the draft FOP.

Notice Review

Included in the notice is all of the information which the commission believes is necessary to effectuate compliance with applicable public notice requirements. Please read it carefully and notify the permit reviewer listed in the cover letter immediately if it contains any errors or omissions. You are responsible for ensuring the accuracy of all information published. You may not change the text of the notice without prior approval from the TCEQ.

Newspaper Notice

- You must publish the enclosed *Notice of Draft Federal Operating Permit* as soon as practical but no later than 30 calendar days after the date on the cover letter with these instructions.
- You must publish the enclosed *Notice of Draft Federal Operating Permit*, at your expense, in the public notice section of one issue of a newspaper of general circulation in the municipality in which the site or proposed site is located, or the municipality nearest to the location of the site or proposed site.
- The bold text of the enclosed notice must be printed in the newspaper in a font style or size that
 distinguishes it from the rest of the notice (i.e., bold, italics). Failure to do so may require renotice.

Alternative Language Notice

In certain circumstances, an applicant for an FOP must complete notice in alternative languages.

Public notice rules require the applicant to determine whether a bilingual program is required at
either the elementary or middle school nearest to the facility or proposed facility location.
 Bilingual education programs are determined on a district-wide basis. When students who are

required to attend either school are eligible to be enrolled in a bilingual education program, some alternative language notice is required (newspaper notice).

- Since the school district, and not the schools, must provide the bilingual education program, these programs do not have to be located at the elementary or middle schools nearest to the facility or proposed facility to trigger the alternative language notice requirement. Alternative language notice is required when students who would normally attend the nearest schools are eligible to be taught in a bilingual education program at a different location.
- If triggered, publications of alternative language notices must be made in a newspaper or publication printed primarily in each language taught in the bilingual education program. This notice is required if such a newspaper or publication exists in the municipality or the county where the facility is located or proposed to be located.
- The applicant must demonstrate a good faith effort to identify a newspaper or publication in the
 required language. If a newspaper or publication of general circulation published at least once a
 month in such language cannot be found, publishing in that language is not required, but signs
 must still be posted adjacent to each English language sign.
- The applicant has the burden to demonstrate compliance with these requirements. You must fill out the *Public Notice Verification Form (TCEQ-20244)* indicating your compliance with the requirements regarding publication in an alternative language. This form is available at www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html.
- It is suggested the applicant work with the local school district to do the following:
 - (a) determine if a bilingual program is required in the district;
 - (b) determine which language is required by the bilingual program;
 - (c) locate the nearest elementary and middle schools; and
 - (d) determine if any students attending either school are eligible to be enrolled in a bilingual educational program.
- If you determine that you must meet the alternative language notice requirements, you are responsible for ensuring that the publication in the alternative language is complete and accurate in that language. Since the most common bilingual programs are in Spanish, the TCEQ has provided example Spanish notice templates for your use. All italic notes should be replaced with the corresponding Spanish translations for the specific application and published in the alternative language publication. Electronic versions of the Spanish templates are available through the Air Permits Division Web site at www.tceq.texas.gov/goto/air/publicnotice.
- If you are required to publish notice in a language other than Spanish, you must translate the entire public notice at your own expense.

Public Comment Period

- The public comment period should last at least 30 calendar days.
- The comment period will be longer if the last day of the public comment period ends on a weekend or a holiday. In this case, the comment period will end on the next business day.
- The comment period for the permit may lengthen depending on whether a notice and comment hearing is held. If a hearing is held, the comment period will be extended to the date of the hearing.

- You must also post a sign in English and as applicable, in each alternative language, referencing the draft FOP.
- Please read the sign template carefully and notify the permit reviewer listed in the cover letter immediately if it contains any errors or omissions. You are responsible for ensuring the accuracy of all information for the sign posting. You may not change the text of the sign without prior approval from the TCEQ.
- Signs must be in place on the first day of publication in a newspaper and must remain in place and be legible for the entire comment period or the end of a notice and comment hearing, if a hearing is granted.
- The sign placed at the site must be located at or near the site main entrance, provided that the sign is legible from the public street. If the sign would not be legible from the public street, then the sign shall be placed within ten feet of a property line paralleling a public street.
- The executive director may approve variations if you demonstrate that it is not practical to comply with the specific sign posting requirements. The executive director must approve variations before signs are posted.
- All lettering on the sign must be no less than 1-1/2" in height and in block printed capital lettering.
- The sign must be at least 18" wide and 28" tall, and consist of dark lettering on a white background.
- Alternative language signs are required if alternative notice is required, even if no newspaper can be found.
- Inspect each sign posting daily to ensure they are present and visible throughout the comment period.
- You must submit certification of sign posting within 10 business days after the end of the
 public comment period by completing and submitting Public Notice Verification Form (TCEQ20244).

Proof of Publication and Public Notice Certification

- Check each publication to ensure that the articles were accurately published.
- You must fax or e-mail a copy of the **proof of publication** of each published notice which shows the complete notice that was published, date of publication, and the name of the newspaper to the permit reviewer, **within 2 business days of publication**. Acceptable proofs of publication are 1) copies of the published notice or 2) the original newspaper clippings of the published notice. If you choose to submit copies of the published notice to the Office of the Chief Clerk, copies must be on standard-size 8½" x 11" paper and must show the actual size of the published notice (do not reduce the image when making copies). Published notices longer than 11" must be copied onto multiple 8½" x 11" pages. Please note, submitting a copy of your published notice could result in faster processing of your application. It is recommended that you maintain original newspaper clippings or tear sheets of the notice for your records.
- You must submit proof of publication of each published notice which shows the complete notice
 that was published, date of publication, and the name of the newspaper to the Office of the
 Chief Clerk. In addition, send a copy to the TCEQ Regional Office and to each local program

with jurisdiction over your site, within **10 business days** after the date of publication. You are encouraged to submit the affidavit with the proof of publication described above.

- You must submit an original publisher's affidavit to the Office of the Chief Clerk within
 30 calendar days after the date of each publication. You must use the enclosed affidavit form. The affidavit must clearly identify the applicant's name and permit number.
- You must submit the *Public Notice Verification Form (TCEQ-20244)* to the Office of the Chief Clerk and return a copy of this form to the Air Permits Division, within 10 business days of the end of the public comment period. You must use this form to verify that you have met sign posting requirements and bilingual notice requirements, as applicable. It is also used to verify that you placed a copy of the application, the statement of basis, and draft permit in a public place in the county in which the site is located or proposed to be located. This form is available at www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html.
- You must submit a completed Form OP-CRO1 (Certification by Responsible Official), signed by
 the Responsible Official or Duly Authorized Representative, that verifies the truth and accuracy
 of all public notice documentation submitted. You must submit this form to the Office of the
 Chief Clerk and a copy of this form to the Air Permits Division, within 10 business days of the
 end of the public comment period.
- The original publisher's affidavit, Public Notice Verification Form, Form OP-CRO1, and an acceptable proof of publication of the published notice must be mailed to:

Texas Commission on Environmental Quality Office of the Chief Clerk, MC-105 Attn: Notice Team P.O. Box 13087 Austin, Texas 78711-3087

A copy of the publisher's affidavit, Public Notice Verification Form, and Form OP-CRO1
must be mailed to:

Texas Commission on Environmental Quality Air Permits Division, MC-163 Attn: Mr. Kal Murthy P.O. Box 13087 Austin, Texas 78711-3087

 Please ensure that the affidavit(s) you send to the Chief Clerk is/are originals and that all blanks on the affidavit are filled in correctly. Photocopies of affidavits will not be accepted by the Chief Clerk.

Failure to Publish, Submit Proof of Publication and Certification of Public Notice

 You must meet all publication requirements. If you fail to publish the notice, post signs, meet bilingual notice requirements, or submit proof of publication and public notice certification on time, the TCEQ may suspend further processing of your application or take other actions.

Application in a Public Place

 You must provide a copy of the complete application, including any subsequent revisions, the statement of basis, and the draft permit, at a public place for review and copying by the public. The draft permit and statement of basis may be accessed at the link noted previously in this document. This place must be in the county in which the site is located or proposed to be located as required by 30 TAC § 122.320(b).

- A public place is one that is publicly owned or operated (ex: libraries, county courthouses, or city halls).
- The complete application must be accessible to the public for review and copying beginning on the first day of newspaper publication and remain in place until the end of the comment period.
- If the application is submitted to the TCEQ with information marked as "CONFIDENTIAL," you are required to indicate which specific portions of the application are not being made available to the public. These portions of the applications must be accompanied with the following statement: "Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the Texas Commission on Environmental Quality, Public Information Coordinator, MC-197, P.O. Box 13087, Austin, Texas 78711-3087."

General Information

When contacting the Commission regarding this application, please refer to the permit number at the top of the Notice of Draft Federal Operating Permit.

If you have questions or need assistance regarding this notice, please contact the permit reviewer listed in the cover letter or the Office of the Chief Clerk at (512) 239-3300.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Notice of Draft Federal Operating Permit

Draft Permit No.: O2027

Application and Draft Permit. Union Carbide Corporation, PO Box 186 Bldg 1, Port Lavaca, TX 77979-0186, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal and revision of Federal Operating Permit (herein referred to as Permit) No. O2027, Application No. 29740, to authorize operation of the Energy Systems, an All Other Basic Organic Chemical Manufacturing facility. The area addressed by the application is located at 7501 State Highway 185 North in Seadrift, Calhoun County, Texas 77983. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to the application. You can find an electronic map of the facility at:

http://www.tceq.texas.gov/assets/public/hb610/index.html?lat=28.515&lng=-96.771666&zoom=13&type=r. This application was received by the TCEQ on November 8, 2019.

The purpose of a federal operating permit is to improve overall compliance with the rules governing air pollution control by clearly listing all applicable requirements, as defined in Title 30 Texas Administrative Code § 122.10 (30 TAC § 122.10). The draft permit, if approved, will codify the conditions under which the area must operate. The permit will not authorize new construction. The executive director has completed the technical review of the application and has made a preliminary decision to prepare a draft permit for public comment and review. The executive director recommends issuance of this draft permit. The permit application, statement of basis, and draft permit will be available for viewing and copying at the TCEQ Central Office, 12100 Park 35 Circle, Building E, First Floor, Austin, Texas 78753; the TCEQ Corpus Christi Regional Office, NRC Bldg Ste 1200, 6300 Ocean Dr, Unit 5839, Corpus Christi, Texas 78412-5839; and at www.dow.com/TX-permits, beginning the first day of publication of this notice. The draft permit and statement of basis are available at the TCEQ Website:

www.tceq.texas.gov/goto/tvnotice

At the TCEQ central and regional offices, relevant supporting materials for the draft permit, as well as the New Source Review permits which have been incorporated by reference, may be reviewed and copied. Any person with difficulties obtaining these materials due to travel constraints may contact the TCEQ central office file room at (512) 239-2900.

Public Comment/Notice and Comment Hearing. Any person may submit written comments on the draft permit. Comments relating to the accuracy, completeness, and appropriateness of the permit conditions may result in changes to the draft permit.

A person who may be affected by the emission of air pollutants from the permitted area may request a notice and comment hearing. The purpose of the notice and comment hearing is to provide an additional opportunity to submit comments on the draft permit. The permit may be changed based on comments pertaining to whether the permit provides for compliance with 30 TAC Chapter 122 (examples may include that the permit does not contain all applicable requirements or the public notice procedures were not satisfied). The TCEQ may grant a notice and comment hearing on the application if a written hearing request is received within 30 days after publication of the newspaper notice. The hearing request must include the basis for the request, including a description of how the person may be affected by the emission of air pollutants from the application area. The request should also specify the conditions of the draft permit that are inappropriate or specify how the preliminary decision to issue or deny the permit is inappropriate. All reasonably ascertainable issues must be raised and all reasonably available arguments must be submitted by the end of the public comment period. If a notice and comment hearing is granted, all individuals that submitted written comments or a hearing request will receive written notice of the hearing. This notice will identify the date, time, and location for the hearing.

Written public comments and/or requests for a notice and comment hearing should be submitted to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087, or electronically at www14.tceq.texas.gov/epic/eComment/

and be received within 30 days after the date of newspaper publication of this notice. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record.

A notice of proposed final action that includes a response to comments and identification of any changes to the draft permit will be mailed to everyone who submitted public comments, a hearing request, or requested to be on the mailing list for this application. This mailing will also provide instructions for public petitions to the U.S. Environmental Protection Agency (EPA) to request that the EPA object to the issuance of the proposed permit. After receiving a petition, the EPA may only object to the issuance of a permit which is not in compliance with the applicable requirements or the requirements of 30 TAC Chapter 122.

Mailing List. In addition to submitting public comments, a person may ask to be placed on a mailing list for this application by sending a request to the Office of the Chief Clerk at the address above. Those on the mailing list will receive copies of future public notices (if any) mailed by the Chief Clerk for this application.

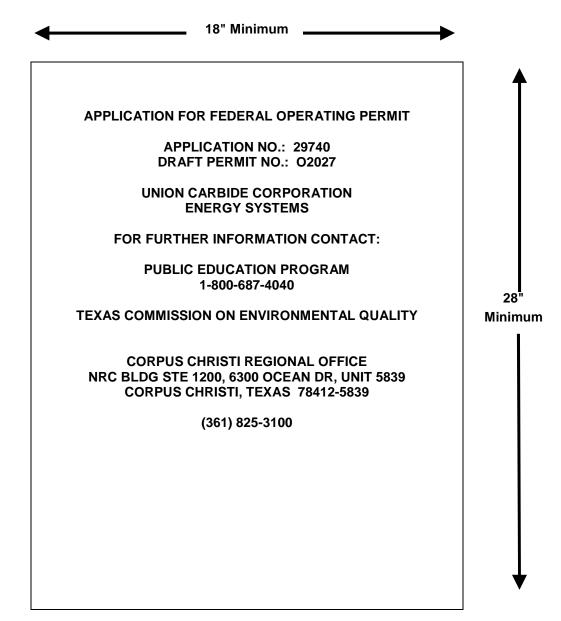
Information. For additional information about this permit application or the permitting process, please contact the Texas Commission on Environmental Quality, Public Education Program, MC-108, P.O. Box 13087, Austin, Texas 78711-3087 or toll free at 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained for Union Carbide Corporation by calling Mr. Danish Khan at (979) 238-1037.

Notice Issuance Date: May 7, 2020

Public Notice Example Sign Posting

Sign(s) must be in place on the date of publication of the newspaper notice and must remain in place and be legible throughout the public comment period. Note - The information shown is an **example only**. It is your responsibility to verify that the appropriate information pertaining to **your application** is accurate. Each sign placed at the **area addressed in the FOP application** must be located at or near the site main entrance, provided that the sign is legible from the public street. If the sign would not be legible from the public street, then the sign shall be placed within 10 feet of a property line paralleling a public street.



Sign(s) must be placed at whatever height above the ground is necessary for sign(s) to be 100% visible from the street.

WHITE BACKGROUND WITH BLACK LETTERS

All lettering must be no less than 1-1/2 inch block printed capitals.

TCEQ-Office of the Chief Clerk MC-105 Attn: Notice Team P.O. Box 13087

Austin, Texas 78711-3087

Applicant Name: <u>Union Carbide Corporation</u>

Permit No.: <u>O2027</u>

Notice of Draft Federal Operating Permit

AFFIDAVIT OF PUBLICATION FOR AIR PERMITTING

STATE OF TEXAS §				
COUNTY OF		{	§	
Before me, the undersigned authority, on this day pers	sonally appeare	ed		
of Person Representing Newspaper)	vho being by m	ne duly sworn,	deposes and says that (s)he	is (Name
the		of the		
the(Title of Person Representing Newspaper)		0: :::0	(Name of the Newspaper)	
that said newspaper is generally circulated in	the site or prop	osed site is lo	cated)	_, Texas;
that the enclosed notice was published in said newspa	aper on the folk	owing date(s):		
		(newspaper	representative's signature)	
Subscribed and sworn to before me this the to certify which witness my hand and seal of office.	day of		, 20	
[Seal]		Notary Public	in and for the State of Texas	
		Print or Type	Name of Notary Public	
		My Commissi	on Expires	

TCEQ-Office of the Chief Clerk

MC-105 Attn: Notice Team

P.O. Box 13087

Austin, Texas 78711-3087

Applicant Name: Union Carbide Corporation

Permit No.: O2027

Notice of Draft Federal Operating Permit

ALTERNATIVE LANGUAGE AFFIDAVIT OF PUBLICATION FOR AIR PERMITTING

STATE OF TEXAS §		
COUNTY OF		§
Before me, the undersigned authority, on this da	ay personally appea	red
of Person Representing Newspaper)	, who being by r	ne duly sworn, deposes and says that (s)he is (<i>Name</i>
the	of the	
the	0: :::0	(Name of the Newspaper)
that said newspaper is generally circulated in(The n	nunicipality or cou	, Texas; nty in which the site or proposed site is located)
that the enclosed notice was published in said r	newspaper on the fo	llowing date(s):
	_	(Newspaper Representative's Signature)
Subscribed and sworn to before me this the to certify which witness my hand and seal of off		, 20
[Seal]	_	Notary Public in and for the State of Texas
· · · · ·	_	Print or Type Name of Notary Public
	_	My Commission Expires

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO Union Carbide Corporation

AUTHORIZING THE OPERATION OF
Distribution Systems
Energy Systems
All Other Basic Organic Chemical Manufacturing

LOCATED AT

Calhoun County, Texas
Latitude 28° 30' 59" Longitude 96° 46' 5"
Regulated Entity Number: RN102181526

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No:	O2027	Issuance Date:	
For the Co	mmission		

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

- 1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
- 3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)

- G. Title 40 CFR § 60.15 (relating to Reconstruction)
- H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 6. For containers managing remediation materials subject to 40 CFR Part 63, Subpart GGGGG, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.1160 incorporated by reference):
 - A. Title 40 CFR § 63.922(b)(1) (3), (c), (d), (d)(1) (5), (e), and (f), (f)(1) (4) (relating to Standards Container Level 1 Controls)
 - B. Title 40 CFR § 63.923(b)(1) (3), (c), (d), (d)(1) (5), (e), and (f), (f)(1) (4) (relating to Standards Container Level 2 Controls)
 - C. Title 40 CFR § 63.924(b)(1) (2), (c)(1), and (d) (relating to Standards Container Level 3 Controls)
 - D. Title 40 CFR § 63.925(a)(1) (8), and (b)(1) (3) (relating to Test Methods and Procedures)
 - E. Title 40 CFR § 63.926(a)(1) (3) (relating to Inspection and Monitoring Requirements)
 - F. Title 40 CFR § 63.7901(b) and (b)(1), for initial demonstration of compliance
 - G. Title 40 CFR § 63.7901(b)(2), for initial demonstration of compliance
 - H. Title 40 CFR § 63.7901(c), (c)(1), and (c)(2), for initial demonstration of compliance
 - I. Title 40 CFR § 63.7901(d), and (d)(1) (4), for initial demonstration of compliance
 - J. Title 40 CFR § 63.7901(e), (e)(1), and (e)(2), for initial demonstration of compliance
 - K. Title 40 CFR § 63.7902(b), (b)(1), and (b)(2), for inspection and monitoring
 - L. Title 40 CFR § 63.7903(b) and (b)(1), for continuous demonstration of compliance
 - M. Title 40 CFR § 63.7903(b)(2), (b)(2)(i), (b)(2)(ii), for continuous demonstration of compliance
 - N. Title 40 CFR § 63.7903(c)(4), (c)(4)(i), and (c)(4)(ii), for continuous demonstration of compliance
 - O. Title 40 CFR § 63.7903(d)(5), (d)(5)(i), and (d)(5)(ii), for continuous demonstration of compliance
 - P. Title 40 CFR § 63.7903(e)(1) (3), for continuous demonstration of compliance
 - Q. Title 40 CFR § 63.7952(c), for recordkeeping

Additional Monitoring Requirements

7. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

- 8. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
- 9. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
- 10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

11. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

- 12. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

- 13. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

14. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary	
Applicable Requirements Summary	12

Note: A "none" entry may be noted for some emission sources in this permit's "Applicable Requirements Summary" under the heading of "Monitoring and Testing Requirements" and/or "Recordkeeping Requirements" and/or "Reporting Requirements." Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
1180	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
1180	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	9009	40 CFR Part 60, Subpart Db	No changing attributes.
1180	STATIONARY TURBINES	N/A	60GG-1	40 CFR Part 60, Subpart GG	Fuel Monitoring Schedule = Previously approved custom fuel monitoring schedule.
1180	STATIONARY TURBINES	N/A	60GG-2	40 CFR Part 60, Subpart GG	Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored.
287	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
287	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	9009	40 CFR Part 60, Subpart Db	No changing attributes.
288	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
288	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	9009	40 CFR Part 60, Subpart Db	No changing attributes.
ENG-433	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
ENG-433	SRIC ENGINES	N/A	601111	40 CFR Part 60, Subpart IIII	No changing attributes.
ENG-433	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				ZZZZ	
ESYS6B	STATIONARY TURBINES	N/A	60GG-1	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage., Fuel Type Fired = Natural gas meeting the definition in § 60.331(u)., Fuel Monitoring Schedule = Previously approved custom fuel monitoring schedule.
ESYS6B	STATIONARY TURBINES	N/A	60GG-2	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel from a bulk storage tank., Fuel Type Fired = Liquid fuel
ESYS6B	STATIONARY TURBINES	N/A	e-9909	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage., Fuel Type Fired = Natural gas meeting the definition in § 60.331(u)., Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored.
ESYS8B	STATIONARY TURBINES	N/A	60GG-1	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage., Fuel Type Fired = Natural gas meeting the definition in § 60.331(u)., Fuel Monitoring Schedule = Previously approved custom fuel monitoring schedule.
ESYS8B	STATIONARY TURBINES	N/A	60GG-2	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel from a bulk

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					storage tank., Fuel Type Fired = Liquid fuel
ESYS8B	STATIONARY TURBINES	N/A	60GG-3	40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage., Fuel Type Fired = Natural gas meeting the definition in § 60.331(u)., Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored.

Reporting Requirements (30 TAC § 122.145)	None	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
Recordkeeping Requirements (30 TAC § 122.144)	None	[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.49b(d) § 60.49b(o) [G]§ 60.49b(p)
Monitoring And Testing Requirements	[G]§ 111.11(a)(1)(F) ** See Periodic Monitoring Summary	None	None	None	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1)
Textual Description (See Special Term and Condition 1.B.)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other tuels: a limit of 86 ng/Jl
Emission Limitation, Standard or Equipment Specification Citation	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	§ 60.40b(a)	§ 60.40b(a)	§ 60.40b(a)	\$ 60.44b(l)(1) \$ 60.44b(h) \$ 60.44b(i) \$ 60.46b(a) \$ 60.48b(h)
State Rule or Federal Regulation Name	30 TAC Chapter 111, Visible Emissions	40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db
Pollutant	Opacity	${\sf SO}_2$	Md	PM (Opacity)	×
SOP Index No.	R1111	60Db	60Db	60Db	60Db
Unit Group Process Type	Б	EU	EU	EU	EU
Unit Group Process ID No.	1180	1180	1180	1180	1180

Reporting Requirements (30 TAC § 122.145)		None	None	None	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
Recordkeeping Requirements (30 TAC § 122.144)		None	None	None	[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.49b(d) § 60.49b(o)
Monitoring And Testing Requirements		§ 60.334(h) § 60.334(h)(4)	§ 60.334(h) [G]§ 60.334(h)(3)	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
Textual Description (See Special Term and Condition 1.B.)	(0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).
Emission Limitation, Standard or Equipment Specification Citation		§ 60.333(b)	§ 60.333(b)	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	§ 60.40b(a)	§ 60.40b(a)
State Rule or Federal Regulation Name		40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG	30 TAC Chapter 111, Visible Emissions	40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db
Pollutant		SO ₂	SO ₂	Opacity	\$0°2	Md
SOP Index No.		60GG-1	60GG-2	R1111	60Db	60Db
Unit Group Process Type		EU	EU	Ф	EU	EU
Unit Group Process ID No.		1180	1180	587	587	287

Reporting Requirements (30 TAC § 122.145)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	\$ 60.49b(a) \$ 60.49b(a)(1) \$ 60.49b(a)(2) \$ 60.49b(a)(3) \$ 60.49b(b) \$ 60.49b(v) \$ 60.49b(v) \$ 60.49b(w)	None	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
Recordkeeping Requirements (30 TAC § 122.144)	[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(g)	None	[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.49b(d) § 60.49b(o)
Monitoring And Testing Requirements	None	\$ 60.46b(c) \$ 60.46b(e) \$ 60.46b(e)(1) [G]\$ 60.48b(b) \$ 60.48b(c) \$ 60.48b(d) \$ 60.48b(e) [G]\$ 60.48b(e) \$ 60.48b(e)(2) \$ 60.48b(e)(3) \$ 60.48b(f)	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
Textual Description (See Special Term and Condition 1.B.)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	Except in §60.44b(l), on/after §60.8 tests, no facility firing specified fuels shall discharge NOx in excess of the specified formula, unless subject to federal ACF of 10% or less.	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	This subpart applies to each steam generating unit constructed, modified, or
Emission Limitation, Standard or Equipment Specification Citation	§ 60.40b(a)	\$ 60.44b(e) \$ 60.44b(h) \$ 60.44b(i) \$ 60.46b(a)	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	§ 60.40b(a)	§ 60.40b(a)
State Rule or Federal Regulation Name	40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db	30 TAC Chapter 111, Visible Emissions	40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db
Pollutant	PM (Opacity)	×	Opacity	\$0°2	PM
SOP Index No.	60Db	60Db	R1111	60Db	60Db
Unit Group Process Type	D D	EU	EP	EU	EU
Unit Group Process ID No.	587	587	588	588	588

Reporting Requirements (30 TAC § 122.145)		§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)	\$ 60.49b(a) \$ 60.49b(a)(1) \$ 60.49b(a)(2) \$ 60.49b(a)(3) \$ 60.49b(b) \$ 60.49b(i) \$ 60.49b(v) \$ 60.49b(w)	None	[G]§ 60.4214(d)
Recordkeeping Requirements (30 TAC § 122.144)		[G]§ 60.49b(d) § 60.49b(o)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	None	§ 60.4214(b)
Monitoring And Testing Requirements		None	\$ 60.46b(c) \$ 60.46b(e) \$ 60.46b(e)(1) [G]\$ 60.48b(b) \$ 60.48b(c) \$ 60.48b(d) \$ 60.48b(e) [G]\$ 60.48b(e) \$ 60.48b(e)(2) \$ 60.48b(e)(3) \$ 60.48b(e)(3)	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	§ 60.4209(a)
Textual Description (See Special Term and Condition 1.B.)	reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	Except in §60.44b(l), on/after §60.8 tests, no facility fining specified fuels shall discharge NOx in excess of the specified formula, unless subject to federal ACF of 10% or less.	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less
Emission Limitation, Standard or Equipment Specification Citation		§ 60.40b(a)	§ 60.44b(e) § 60.44b(h) § 60.44b(i) § 60.46b(a)	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	\$ 60.4205(b) \$ 60.4202(a)(2) \$ 60.4206 \$ 60.4207(b) [G]\$ 60.4211(a) \$ 60.4211(c)
State Rule or Federal Regulation Name		40 CFR Part 60, Subpart Db	40 CFR Part 60, Subpart Db	30 TAC Chapter 111, Visible Emissions	40 CFR Part 60, Subpart IIII
Pollutant		PM (Opacity)	ŇON	Opacity	00
SOP Index No.		60Db	60Db	R1111	11109
Unit Group Process Type		EU	EU	EP	EU
Unit Group Process ID No.		288	288	ENG-433	ENG-433

Reporting Requirements (30 TAC § 122.145)		[G]§ 60.4214(d)	[G]§ 60.4214(d)
Recordkeeping Requirements (30 TAC § 122.144)		§ 60.4214(b)	§ 60.4214(b)
Monitoring And Testing Requirements		§ 60.4209(a)	§ 60.4209(a)
Textual Description (See Special Term and Condition 1.B.)	than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during
Emission Limitation, Standard or Equipment Specification Citation	[G]§ 60.4211(f) § 60.4218 § 89.112(a)	\$ 60.4205(b) \$ 60.4202(a)(2) \$ 60.4206 \$ 60.4207(b) [G]§ 60.4211(a) \$ 60.4211(c) [G]§ 60.4211(f) \$ 60.4218 \$ 89.112(a)	\$ 60.4205(b) \$ 60.4202(a)(2) \$ 60.4206 \$ 60.4207(b) [G]§ 60.4211(a) \$ 60.4211(c) [G]§ 60.4211(f) \$ 60.4218 \$ 60.4218 \$ 89.113(a)(1) \$ 89.113(a)(2) \$ 89.113(a)(3)
State Rule or Federal Regulation Name		40 CFR Part 60, Subpart IIII	40 CFR Part 60, Subpart IIII
Pollutant		NON NOX	PM (Opacity)
SOP Index No.		111109	111109
Unit Group Process Type		EU	EU
Unit Group Process ID No.		ENG-433	ENG-433

Reporting Requirements (30 TAC § 122.145)		[G]§ 60.4214(d)	None
Recordkeeping Requirements (30 TAC § 122.144)		§ 60.4214(b)	None
Monitoring And Testing Requirements		§ 60.4209(a)	None
Textual Description (See Special Term and Condition 1.B.)	lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 kW and less than or equal to 2237 kW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/kW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JUJU, for spark ignition engines as applicable. No further requirements apply for such engines under this part.
Emission Limitation, Standard or Equipment Specification Citation		\$ 60.4205(b) \$ 60.4202(a)(2) \$ 60.4206 \$ 60.4207(b) [G]\$ 60.4211(a) \$ 60.4211(c) [G]\$ 60.4211(f) \$ 60.4218 \$ 89.112(a)	§ 63.6590(c)
State Rule or Federal Regulation Name		40 CFR Part 60, Subpart IIII	40 CFR Part 63, Subpart ZZZZ
Pollutant		Md	112(B) HAPS
SOP Index No.		IIII09	63ZZZZ
Unit Group Process Type		EU	EU
Unit Group Process ID No.		ENG-433	ENG-433

Reporting Requirements (30 TAC § 122.145)	Ð.	95	91	Ð.	9.	90
Recordkeeping Requirements (30 TAC § 122.144) (3	None	§ 60.334(i) None § 60.334(i)(1)	None	None	§ 60.334(i) None § 60.334(i)(1)	None
Monitoring And Testing Requirements	§ 60.334(h) 8 60.334(h)(4)	\$ 60.334(h) (1) \$ 60.334(h)(1) \$ 60.334(h)(1) \$ 60.334(i) (1) \$ 60.334(j)(2)(i) \$ 60.334(j)(2)(i) \$ 60.334(j)(2)(ii) \$ 60.334(j)(2)(ii) \$ 60.335(b)(10) \$ 60.335(b)(10) \$	§ 60.334(h) N [G]§ 60.334(h)(3)	§ 60.334(h) 8 60.334(h)(4)	\$ 60.334(h)	§ 60.334(h) N [G]§ 60.334(h)(3)
Textual Description (See Special Term and Condition 1.B.)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.
Emission Limitation, Standard or Equipment Specification Citation	§ 60.333(b)	§ 60.333(b)	§ 60.333(b)	§ 60.333(b)	§ 60.333(b)	§ 60.333(b)
State Rule or Federal Regulation Name	40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG	40 CFR Part 60, Subpart GG
Pollutant	SO_2	SO ₂	SO_2	SO_2	${\sf SO}_2$	${\sf SO}_2$
SOP Index No.	60GG-1	60GG-2	e-9909	60GG-1	60GG-2	60GG-3
Unit Group Process Type	EU	EU	EU	EU	EU	EU
Unit Group Process ID No.	ESYS6B	ESYS6B	ESYS6B	ESYS8B	ESY S8B	ESYS8B

	Additional Monito	ring Requirements	
Periodic Monitoring Sumn	nary		 19

Periodic Monitoring Summary

Unit/Group/Process Information			
ID No.: 1180			
Control Device ID No.: N/A Control Device Type: N/A			
Applicable Regulatory Requirement			
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111		
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)		
Monitoring Information			

Indicator: Fuel Type

Minimum Frequency: Annually or at any time an alternate fuel is used

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.

Periodic Monitoring Summary

Unit/Group/Process Information			
ID No.: 587			
Control Device ID No.: N/A Control Device Type: N/A			
Applicable Regulatory Requirement			
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111		
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)		
Monitoring Information			

Indicator: Fuel Type

Minimum Frequency: Annually or at any time an alternate fuel is used

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.

Periodic Monitoring Summary

ype: N/A
vpe: N/A
7
R1111
§ 111.111(a)(1)(C)

Indicator: Fuel Type

Minimum Frequency: Annually or at any time an alternate fuel is used

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: ENG-433	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Minimum Frequency: Annually or at any time an alternate fuel is used

Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.

New Source Review Authorization References

New Source Review Authorization References	24
New Source Review Authorization References by Emission Unit	25

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD)	Permits			
PSD Permit No.: PSDTX921	ssuance Date: 07/24/2019			
Title 30 TAC Chapter 116 Permits, Special Pe By Rule, PSD Permits, or NA Permits) for the	rmits, and Other Authorizations (Other Than Permits Application Area.			
Authorization No.: 38481	Issuance Date: 07/24/2019			
Authorization No.: 9609A	Issuance Date: 09/01/2015			
Permits By Rule (30 TAC Chapter 106) for the Application Area				
Number: 106.261	Version No./Date: 09/04/2000			
Number: 106.261	Version No./Date: 11/01/2003			
Number: 106.263	Version No./Date: 11/01/2001			
Number: 106.371	Version No./Date: 03/14/1997			
Number: 106.472	Version No./Date: 09/04/2000			
Number: 106.511	Version No./Date: 09/04/2000			
Number: 61	Version No./Date: 07/20/1992			
Number: 111	Version No./Date: 09/12/1989			
Number: 118	Version No./Date: 09/12/1989			

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New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
1180	COGENERATION STACK- HRSG ONLY	38481, PSDTX921
1180	COGENERATION STACK- TURBINE ONLY	38481, PSDTX921
587	HRSG A	9609A
588	HRSG B	9609A
ENG-433	EMERGENCY DIESEL ENGINE	106.511/09/04/2000
ESYS6B	GAS TURBINE GENERATOR A	9609A
ESYS8B	GAS TURBINE GENERATOR B	9609A

	Appendix A	
Acronym List		27

Acronym List

The following abbreviations or acronyms may be used in this permit:

	actual aubia fact per minuta
	actual cubic feet per minute
	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
	continuous emissions monitoring system
	continuous opacity monitoring system
CVS	closed vent system
D/FW	
FP	emission point
	U.S. Environmental Protection Agency
	emission unit
EO	F. L. a. I. Ola a. A.'. A. (A. a. a. a. l. a. a. t. a. a. t. a.
	Federal Clean Air Act Amendments
	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
	hazardous air pollutant
	Houston/Galveston/Brazoria (nonattainment area)
	hydrogen sulfide
	identification number
	pound(s) per hour
	Million British thermal units per hour
NIΔ	nonattainment
TN/\	
	not applicable
N/A	not applicable National Allowance Data Base
N/A NADB	
N/A NADB NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)nitrogen oxides
N/A NADB NESHAP NOx NSPS	National Allowance Data BaseNational Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)nitrogen oxidesNew Source Performance Standard (40 CFR Part 60)
N/A NADB NESHAP NOx NSPS NSR	
N/A NADB NESHAP NOx NSPS NSR	National Allowance Data BaseNational Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)nitrogen oxidesNew Source Performance Standard (40 CFR Part 60)
N/A	
N/A	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead
N/A NADB NESHAP NOx NSPS NSR ORIS Pb	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system particulate matter
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system particulate matter parts per million by volume
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system particulate matter parts per million by volume process unit
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO PSD	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system particulate matter parts per million by volume process unit prevention of significant deterioration
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO PSD	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system particulate matter parts per million by volume process unit prevention of significant deterioration
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PEMS PM ppmv PRO PSD psia	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PEMS PM ppmv PRO PSD psia SIP	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PFMS PM ppmv PRO PSD psia SIP SO2	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PFM PPM SPS SIP SO2 TCEQ	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO PSD psia SIP SO2 TCEQ TSP	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO PSD psia SIP SO2 TCEQ TSP TVP	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO PSD psia SIP SO2 TCEQ TSP TVP U.S.C	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) nitrogen oxides New Source Performance Standard (40 CFR Part 60) New Source Review Office of Regulatory Information Systems lead Permit By Rule predictive emissions monitoring system parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan sulfur dioxide Texas Commission on Environmental Quality total suspended particulate true vapor pressure United States Code
N/A NADB NESHAP NOx NSPS NSR ORIS Pb PBR PEMS PM ppmv PRO PSD psia SIP SO2 TCEQ TSP TVP U.S.C	National Allowance Data Base National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)

Appendix B	
Major NSR Summary Table	29

Major NSR Summary Table

Permit Numbers: 3	Permit Numbers: 38481 and PSDTX921				Issuance Date: July 24, 2019	2019	
		zi w	Emission Rates (5)	Rates (5)	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NO _x	17.40				
		CO (4)	29.40	ı			
1180	Cogeneration Stack (Turbine Only) GE Model PG6561(R)	PM ₁₀ (4)	5.00	ı	5, 6, 9, 10, 13, 14, 16,17	6, 10, 9, 11, 13, 14, 16, 17, 18, 19	10, 11, 13, 14, 20, 22
		SO ₂	14.88	•			
		20/	2.12	ı			
		×ON	41.26	165.28			
		CO (4)	53.10	211.85			
1180	Cogeneration Stack (Combined Turbine and HRSGLI)	PM ₁₀ (4)	8.02	34.13	5, 7, 8, 9, 10, 12, 13, 14, 16, 17	10, 7, 8, 9, 11, 13, 14, 16, 17, 18, 19	10, 11, 13, 14, 20, 22
		2OS	23.43	9.31			
		VOC	3.34	13.29			
	Codeneration Stack Peak	*ON	76.12	0.91			
1180	Loading for 24 hrs/year (Combined Turbine and	CO (4)	53.12	0.63	5, 7, 8, 9, 10, 12, 13, 14, 16, 17	10, 7, 8, 9, 11, 13, 14, 16, 17, 18, 19	10, 11, 13, 14, 20, 22
	HRSG)	PM ₁₀ (4)	8.02	0:096			

Major NSR Summary Table

Permit Numbers: 3	Permit Numbers: 38481 and PSDTX921				Issuance Date: July 24, 2019	019	
- miceionint		Air Contaminant	Emission Rates (5)	Rates (5)	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO ₂	24.62	0.29			
		200	3.51	0.042			
1181	Cogeneration Fugitives	(9) OOA	0.01	0.02			
1182	Turbine Oil Vent	VOC (6)	0.25	1.00			

Emission point identification - either specific equipment designation or emission point number from plot plan. 3 (2)

Specific point source name. For fugitive sources use area name or fugitive source name.

total oxides of nitrogen , Š

carbon monoxide 8 particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns PM₁₀ -

sulfur dioxide SO_2 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1(4)

These emissions are permitted under PSD and State. (5) (6)

Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Emission rates are based on and the facilities are limited by the following maximum operating schedule:

or Hrs/year Hrs/day 24 Days/week 7 Weeks/year 52



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Union Carbide Corporation
Authorizing the Continued Operation of
UCC Seadrift Operations
Located at Seadrift, Calhoun County, Texas
Latitude 28° 30′ 59″ Longitude -96° 46′ 5″

Permit: 38481 and	d PSDTX921	
Issuance Date:	July 24, 2019	
Expiration Date:	July 24, 2029	1 de Jalu
		For the Commission

- 1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] ¹
- 2. Voiding of Permit. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
- 3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
- 4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
- 5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
- 6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
- 7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours;

keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

- 8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] 1
- 9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
- 10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
- 11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
- 12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
- 13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
- 14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. ¹

Revised (10/12) 2

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 38481 and PSDTX921

Emission Standards and Operating Specifications

- 1. One Combustion Turbine Generator (CTG) Unit; General Electric Model PG6561(B), is authorized by this permit. The CTG unit is rated for a nominal maximum (short-term operation) power output of 44.46 MW (at 20°F) and for an average (long-term operation) power output of 38.7 MW (at 69°F). In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit. (4/19)
- One heat recovery steam generating unit (HRSGU) equipped with duct burners for supplemental fuel firing is authorized by this permit. The HRSGU is limited to a maximum (short-term) heat input capacity of 301.5 MMBtu/hr based on higher heating value (HHV) and limited to an average (longterm operation) heat input capacity of 279.3 MMBtu/hr based on the HHV of natural gas. (PSD/STATE, 10/99)
- 3. The CTG unit shall normally operate at 100 percent base load except for periods of start-up or shutdown not to exceed three hours. Peak load operation is allowed for 24 hours per year to meet the temporary high demands of electricity within the plant. Reduced load operation is authorized to accommodate periods of reduced power and steam demands provided the maximum pounds per hour (lb/hr) emission rates specified on the attached table entitled "Emission Sources Maximum Allowable Emissions Rates," for Emission Point No. (EPN) 1180 are not exceeded. (PSD/STATE, 10/99)
- 4. Fuel for the CTG and HRSGU duct burners is limited to pipeline-quality natural gas containing no more than 10 grains total sulfur per 100 dry standard cubic feet (dscf) (1 grain total sulfur per 100 dscf averaged over any consecutive 12-month period). Use of any other fuel shall require modification to this permit. (PSD/STATE, 10/99)
- 5. Upon request by the Executive Director of the Texas Natural Resource Conservation Commission (TNRCC) or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels fired in the gas turbines and duct burners or shall allow air pollution control agency representatives to obtain a sample for analysis. (PSD/STATE, 10/99)
- 6. The CTG Emission Limits expressed as parts per million by volume dry basis (ppmvd) or as parts per million by volume wet basis (ppmvw), when corrected to 15 percent oxygen (O₂), without correction to International Standards Organization (ISO) conditions:
 - When firing natural gas, emissions of carbon monoxide (CO) shall not exceed 25.0 ppmvd; and volatile organic compounds (VOC), defined as total hydrocarbons, shall not exceed 7.0 ppmvw at any load except the peak load operation allowed for 24 hours per year by this permit and during periods of start-up or shutdown. (PSD/STATE, 10/02)
- 7. HRSGU Duct Burner Emission Limits expressed in pound per million British Thermal Units (lb/MMBtu), based on the HHV of natural gas:
 - When HRSGU is firing natural gas, emissions of nitrogen oxides (NO_x) shall not exceed 0.08 lb/MMBtu, CO shall not exceed 0.08 lb/MMBtu, and VOC shall not exceed 0.004 lb/MMBtu (1.22 lb/hr) at any load except during periods of start-up or shutdown. **(PSD/STATE, 10/99)**

- 8. Combined CTG and HRSGU Duct Burner Stack Emission Limits expressed as ppmvd when corrected to 15 percent O₂, without correction to ISO conditions.
 - A. When turbine and duct burner are firing natural gas, emissions of NO_x shall not exceed 14.0 ppmvd, CO shall not exceed 30.0 ppmvd, and VOC shall not exceed 2.0 ppmvd, at any load except the peak load and during periods of start-up or shutdown.
 - B. When the turbine is operating at the peak load (not to exceed 24 hours per year), emissions for NO_x from the combined CTG and HRSGU shall not exceed 25.0 ppmvd at 15 percent O₂; CO emissions shall not exceed 30.0 ppmvd at 15 percent O₂; and volatile organic carbon emissions shall not exceed 2.0 ppmvd at 15 percent O₂. **(PSD/STATE, 10/99)**
- 9. Opacity of emissions from EPN 1180 shall not exceed 5 percent averaged over a six-minute period when firing natural gas except during periods of start-up or shutdown. Opacity shall be determined by the U.S. Environmental Protection Agency (EPA) Reference Method No. 9 during the initial performance test and at other times if requested by the TNRCC staff. (PSD/STATE, 10/99)

Federal Applicability

- 10. These facilities shall comply with applicable requirements of the EPA Regulations on Standards of Performance for New Stationary Sources, Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart A, General Conditions, and the following:
 - A. Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.
 - B. Subpart GG, Stationary Gas Turbines.
 - If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated. **(PSD/STATE, 10/99)**

Compliance Plan

11. The holder of this permit shall submit a compliance plan 90 days prior to the initial start-up of the CTG/HRSGU addressing all of the pertinent permit special conditions and the methods to be used to comply with those conditions. The compliance plan shall include examples of forms required for recordkeeping. (PSD/STATE, 10/99)

Initial Determination of Compliance

- 12. Sampling ports and platforms shall be incorporated into the design of all exhaust stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TNRCC Corpus Christi Regional Director or the Manager of the TNRCC Austin Enforcement Division, Engineering Services Team. (PSD/STATE, 10/99)
- 13. The holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from EPN 1180. Sampling shall be conducted in accordance with the appropriate procedures of the TNRCC Sampling Procedures Manual and in accordance with the appropriate EPA Reference Methods 201A and 202 or Reference Method 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter (PM₁₀) with the allowance for ambient

particulates (i.e., subtracting out particulates entering the turbine); Reference Method 8 or Reference Methods 6 or 6c for sulfur dioxide (SO_2); Reference Method 9 for opacity (consisting of 30 six-minute readings as provided in 40 CFR § 60.11[b]); Reference Method 10 for the concentration of CO; Reference Method 25A modified to exclude methane and ethane for the concentration of VOC (to measure total carbon as propane); and Reference Method 20 for the concentrations of NO_x and O_2 or equivalent methods.

Fuel sampling using the methods and procedures of 40 CFR § 60.335(d) may be conducted in lieu of stack sampling for SO₂. If fuel sampling is used, compliance with New Source Performance Standards (NSPS), Subpart GG, SO₂ limits shall be based on 100 percent conversion of the sulfur in the fuel to SO₂. Any deviations from those procedures must be approved by the Executive Director of the TNRCC prior to sampling. The TNRCC Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

A. The TNRCC Corpus Christi Regional Office shall be contacted as soon as testing is scheduled but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.
- (6) Procedure used to determine turbine loads during and after the sampling period.
- (7) Method to determine ambient concentration of particulate matter.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions or TNRCC or EPA sampling procedures shall be made available to the TNRCC prior to the pretest meeting. The TNRCC Regional Director or the Manager of the TNRCC Austin Enforcement Division, Engineering Services Team shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TNRCC Office of Permitting, Remediation, and Registration, Air Permits Division in Austin. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have EPA approval shall be submitted to the TNRCC Austin Enforcement Division, Engineering Services Team.

B. Air emissions to be tested for at full CTG load include (but are not limited to) NO_x, O₂, CO, VOC, PM₁₀, and opacity. Testing at full CTG load shall be conducted for the following two test conditions: (1) CTG only firing with natural gas and (2) CTG firing with natural gas and duct burner firing at the maximum feasible rate with natural gas. This testing will be used to demonstrate initial compliance with the CTG emission limits (Special Condition No. 6), combined CTG and HRSG emission limit (Special Condition No. 8), and the maximum allowable emission rates table (MAERT).

- C. Air emissions of NO_x, O₂, CO, and VOC from CTG (duct burners off) shall be tested while firing at three partial load conditions in the normal operating range of the gas turbine, including the minimum point in the range, corrected to ISO conditions. The normal operating range consistent with emission limits is to be determined during stack testing. This testing will be used to demonstrate initial compliance with Special Condition No. 6 and the MAERT. Each tested load shall be identified in the sampling report.
- D. Air emissions of NO_x, O₂, CO, and VOC from the HRSGU duct burners shall be tested while firing at maximum rated heat capacity with natural gas that will produce at the highest allowable emission rate considering the ambient conditions at the time of testing. The HRSGU duct burner emissions shall be calculated as the remainder of emissions when subtracting the CTG emissions with the duct burners out of service from the GT-HRSGU stack emissions with the duct burners in service. The CTG must be operating at a maximum rate for the ambient conditions and shall be fired with natural gas. For the purposes of demonstrating initial compliance, emissions from the HRSGU duct burners shall not exceed the limits in Special Condition No. 7 and the MAERT.
- E. Sampling of the gas turbine and duct burner shall occur within 60 days after achieving the maximum production rate at which the gas turbine and duct burner will be operated but no later than 180 days after initial start-up of each unit. Additional sampling shall occur as may be required by the TNRCC or EPA.
- F. Within 60 days after the completion of the testing and sampling required herein, three copies of the sampling reports shall be distributed as follows:

One copy to the TNRCC Corpus Christi Regional Office.

One copy to the TNRCC Austin Office of Permitting, Remediation, and Registration, Air Permits Division.

One copy to the EPA Region 6 Office, Dallas.

(PSD/STATE, 10/99)

Continuous Determination of Compliance for CO and NO_x

- 14. The holder of this permit shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) to measure and record the concentrations of NO_x, CO, and O₂ from the Cogeneration Stack (EPN 1180). The initial certification and relative accuracy test audit shall be conducted prior to or during the sampling required by Special Condition No. 13.
 - A. Monitored NO_x and CO concentrations shall be corrected and reported in dimensional units corresponding to the emission rate and concentration limits established for the gas turbine and duct burners in this permit.
 - B. The CEMS shall meet the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, Section 5.2.3 and any CEMS downtime exceeding 12 hours shall be reported to the appropriate TNRCC Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TNRCC Regional Director. Permittee will keep records of any CEMS down time less than 12 hours and will incorporate such down time events into the quarterly reports required pursuant to 40 CFR § 60.7(c). During periods in which the CEMS is unable to produce a valid average concentration, hourly emissions will be calculated from monitoring of operational parameters including the CTG and duct burner firing rates, air temperature, and fuel flow.

- C. The monitoring data shall be reduced to hourly average values at least once everyday, using a minimum of four equally-spaced data points from each one-hour period. Two valid data points shall be generated during the hourly period in which zero and span is performed.
- D. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TNRCC Executive Director or his designated representative upon request. The data from the CEMS may, at the discretion of the TNRCC, be used to determine compliance with the conditions of this permit. Hourly average concentrations from EPN 1180 shall be converted to TPY and will be used to determine compliance with the annual emission limits in the MAERT.
- E. The appropriate TNRCC Corpus Christi Regional Office shall be notified at least 30 days prior to any required relative accuracy test audit in order to provide them the opportunity to observe the testing.
- F. If applicable, the CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A. (PSD/STATE, 10/99)
- 15. If any emission monitor fails to meet specified performance, it shall be repaired or replaced immediately, but no later than five days after it was first detected by any employee at the facility, unless authorization is obtained from the TNRCC which allows for a longer repair/replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required. (PSD/STATE, 10/99)
- 16. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas consumption of: a) the entire CTG and the HRSGU facility and b) the HRSGU unit. The natural gas consumption of the CTG will be calculated by subtracting b from a. The natural gas consumption to the systems shall be accurate to ±5.0 percent of the units maximum flow. (PSD/STATE, 10/99)
- 17. The holder of this permit shall monitor and record the fuels fired in the equipment authorized by this permit for fuel-bound sulfur as specified in 40 CFR § 60.334(b). Any request for a custom monitoring schedule shall be made in writing and directed to the TNRCC Enforcement Division, Engineering Services Team in Austin. Any custom schedule approved by the TNRCC pursuant to 40 CFR § 60.334(b) will be recognized as enforceable conditions of this permit. (PSD/STATE, 10/99)

Recordkeeping Requirements

- 18. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TNRCC, EPA, or any air pollution control agency with jurisdiction.
 - A. A copy of this permit.
 - B. Permit applications dated May 1998, June 22, 1998, February 12, 1999, and all subsequent representations submitted to the TNRCC.
 - C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 13 to demonstrate initial compliance.

- Stack sampling results or other testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit. (PSD/STATE, 10/99)
- 19. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of two years after collection and shall be made immediately available upon request to representatives of the TNRCC, EPA, or any local air pollution control program having jurisdiction:
 - A. The CEMS data of NO_x, CO, and O₂ emissions from EPN 1180 to demonstrate compliance with the MAERT.
 - B. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems in a permanent form suitable for inspection.
 - C. Records of the hours of operation and average hourly quantity of natural gas fired in the CTG and HRSGU duct burner.
 - D. Records documenting the power output ratings for the CTG as required by Special Condition No. 1 of this permit.
 - E. Records of short-term and long-term heat input capacities of HRSG Unit as required by Special Condition No. 2 of this permit.
 - F. Records of operational load of the CTG. (PSD/STATE, 10/99)

Reporting

- 20. The holder of this permit shall submit to the TNRCC Corpus Christi Regional Office, TNRCC Enforcement Division, Engineering Services Team in Austin, and the Air Enforcement Branch of EPA in Dallas quarterly reports as described in 40 CFR § 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit. In addition to the information specified in 40 CFR § 60.7(c), each report shall contain the hours of operation of the equipment authorized by this permit and a report summary of the periods of noncomplying emissions and CEMS downtimes by cause. (PSD/STATE, 10/99)
- 21. For the purposes of reporting pursuant to Special Condition No. 20, noncomplying emissions from equipment authorized by this permit shall be defined as follows:
 - A. Noncomplying emissions of NO_x or CO shall be defined as each one-hour period of operation, except during start-up or shutdown, during which the average emissions as measured and recorded by the CEMS exceed any lb/hr emission limitation specified in the MAERT.
 - B. Noncomplying annual emissions shall be defined as a rolling 12-month period during which the 12-month cumulative emissions exceeds the annual limits specified in the MAERT of this permit.
 - C. Noncomplying emissions of SO₂ shall be defined as emissions resulting from firing fuel which is found to contain sulfur in excess of the limits of Special Condition No. 4 or which indicates exceedance of the SO₂ limitation specified in the MAERT based on 100 percent conversion of the sulfur in the fuel to SO₂. **(PSD/STATE, 10/99)**
- 22. If the average NO_x or CO stack outlet lb/hr emission rates exceeds the MAERT levels for more than one hour, the holder of this permit shall investigate and determine the reason for the lb/hr exceedance and, if needed, make necessary repairs and/or adjustments as soon as possible.

Special Conditions Permit Numbers 38481 and PSDTX921 Page 7

If the NO_x or CO emission rates exceed the emission rates in the MAERT for more than 24 hours, the permit holder shall notify the TNRCC Corpus Christi Regional Office either verbally or with a written report detailing the cause of the increase in emissions and all efforts being made to correct the problem. **(PSD/STATE, 10/99)**

Date: April 2, 2019

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 38481 and PSDTX921

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission	Rates (5)
Emission Folia No. (1)	Source Name (2)		lbs/hour	TPY (4)
1180	Cogeneration Stack (Turbine Only) GE Model PG6561(B)	NOx	17.40	-
	()	CO (4)	29.40	-
		PM ₁₀ (4)	5.00	-
		SO ₂	14.88	-
		VOC	2.12	-
1180	Cogeneration Stack (Combined Turbine and HRSGU)	NOx	41.26	165.28
		CO (4)	53.10	211.85
		PM ₁₀ (4)	8.02	34.13
		SO ₂	23.43	9.31
		VOC	3.34	13.29
	Cogeneration Stack Peak Loading for 24 hrs/year (Combined Turbine	NOx	76.12	0.91
	and HRSG)	CO (4)	53.12	0.63
		PM ₁₀ (4)	8.02	0.096
		SO ₂	24.62	0.29
		VOC	3.51	0.042
1181	Cogeneration Fugitives	VOC (6)	0.01	0.02
1182	Turbine Oil Vent	VOC (6)	0.25	1.00

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) NO_x total oxides of nitrogen
- CO carbon monoxide

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

SO₂ - sulfur dioxide

Project Number: 298977

Permit Numbers 38481 and PSDTX921 Page 2

Emission Sources - Maximum Allowable Emission Rates

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1(4)

- (4) These emissions are permitted under PSD and State.
- (5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year

Date:	April 2, 2019
Date.	Αριιι Ζ, Ζυ ι Θ

Project Number: 298977

Statement of Basis of the Federal Operating Permit

Union Carbide Corporation

Site Name: Distribution Systems
Area Name: Energy Systems
Physical Location: 7501 State Highway 185 North
Nearest City: Seadrift
County: Calhoun

Permit Number: O2027 Project Type: Renewal

The North American Industry Classification System (NAICS) Code: 325199
NAICS Name: All Other Basic Organic Chemical Manufacturing

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected;

A compliance status; and

A list of available unit attribute forms.

Prepared on: May 7, 2020

Operating Permit Basis of Determination

Permit Area Process Description

The overall processes involved in this application area are Electricity Generation, Steam Generation, and the Deionized Water System.

Electricity Generation:

Electrical power generation operations include three cogeneration trains. Each of the cogeneration trains includes a Gas Turbine Generator (GTG) and a Heat Recovery Steam Generator (HRSG).

The GTGs burn natural gas as a primary fuel but are capable of firing No.2 Fuel Oil as an alternate fuel. Fuel oil is only fired in the GTGs during an emergency in the case of natural gas supply problems. The natural gas is pipeline-quality sweet gas and the fuel oil is first run refinery distillate which does not include waste oils or solvents. Exhaust gas from the GTGs are routed to the HRSGs which are capable of operating continuously under normal conditions.

Steam injection systems reduce the NOx emission rate from GTGs ESYS6B and ESYS8B. Low NOx burners are installed on GTG 1180. When firing fuel oil, SO2 emissions are controlled by limiting the fuel oil sulfur content through monitoring of incoming shipments.

Steam Generation:

Energy Systems include three Heat Recovery Steam Generators (HRSGs) which produce steam. Steam produced is primarily consumed by the various manufacturing units at the Seadrift Facility. The HRSGs produce steam by boiling deionized water with heat from the GTG exhaust gases plus additional heat from firing duct burners. The duct burners are fired primarily with sweet natural gas supplied by pipeline in addition to process gas from the HP2 unit which is located at the facility. The duct burners are fired intermittently as necessary to meet steam demand. Steam produced in excess of demand is diverted to steam turbines to generate electricity for use within the facility.

Deionized Water:

The Deionized Water System uses physical and chemical processes to deionize water drawn from UCC's freshwater pond. Most of the deionized water is used as boiler feed water. Any remaining demineralized water is supplied to manufacturing units within the Seadrift Facility. The operations associated with the Deionized Water System do not result in emissions and are not subject to Title V applicable requirements.

FOPs at Site

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: O1613, O2026, O2028, O2029, O2030, O2031, O2032, O2035

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

Major Pollutants VOC, PM, NOX, HAPS, CO		
	Major Pollutants	

Reading State of Texas's Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
 - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
 - Additional Monitoring Requirements
 - New Source Review Authorization Requirements
 - Compliance Requirements
 - o Protection of Stratosphere Ozone
 - o Permit Location
 - Permit Shield (30 TAC § 122.148)
- Attachments
 - Applicable Requirements Summary
 - Unit Summary
 - Applicable Requirements Summary
 - Additional Monitoring Requirements
 - Permit Shield
 - New Source Review Authorization References
 - Compliance Plan
 - Alternative Requirements
- Appendix A
 - Acronym list
- Appendix B
 - Copies of major NSR authorizations

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Appendix B

Copies of major NSR authorizations applicable to the units covered by this permit have been included in this Appendix, to ensure that all interested persons can access those authorizations.

Stationary Vents subject to 30 TAC Chapter 111

All stationary vents subject to 30 TAC Chapter 111 are listed in the permit's Applicable Requirement Summary. The basis for the applicability determinations for these vents are listed in the Determination of Applicable Requirements table.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	Yes
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	No
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	Yes
CSAPR (Cross-State Air Pollution Rule)	No
Federal Implementation Plan for Regional Haze (Texas SO ₂ Trading Program)	No

Insignificant Activities

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.

- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations

that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*
ENG-433	40 CFR Part 60, Subpart	601111	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005. Diesel = Diesel fuel is used. Kilowatts = Power rating greater than or equal to 130 KW and less than or equal to 368 KW. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Displacement = Displacement is less than 10 liters per cylinder. Service = CI ICE is an emergency engine. Standards = The emergency CI ICE does not meet the standards applicable to non-emergency engines. Commencing = CI ICE was newly constructed after 07/11/2005. Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions. Manufacture Date = Date of manufacture was after 04/01/2006.
ENG-433	40 CFR Part 63, Subpart ZZZZ	63ZZZZ	HAP Source = The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2 Brake HP = Stationary RICE with a brake HP greater than or equal to 250 HP and less than 300 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = Limited use.
1180	40 CFR Part 60, Subpart Db	60Db	Alternate Emission Lmit (AEL) = The facility combusts byproduct/waste with either natural gas or oil and did not petition the EPA Administrator to establish a NO _x emission limit that applies specifically when the byproduct/waste is combusted. Construction/Modification Date = Constructed or reconstructed after July 9, 1997, and on or before February 28, 2005. D-Series Fuel Type #1 = Natural gas. Heat Input Capacity = Heat input capacity is greater than 250 MMBtu/hr (73 MW). PM Monitoring Type #1 = No particulate monitoring. Opacity Monitoring Type = No particulate (opacity) monitoring. Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da. Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. NOX Monitoring Type = No NO _x monitoring. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA. Subpart Ea, Eb or AAAA. Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E.

Unit ID	Regulation	Index Number	Basis of Determination*
			Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Technology Type = None. ACF Option - SO2 = Other ACF or no ACF. Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. Unit Type = Duct burner as part of combined cycle system (compliance with NO _x limitations is determined by conducting a performance test). ACF Option - PM = Other ACF or no ACF. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(m) alternative. ACF Option - NOx = Other ACF or no ACF.
1180	40 CFR Part 60, Subpart Dc	60Dc	Construction/Modification Date = After June 9, 1989 but on or before February 28, 2005. Maximum Design Heat Input Capacity = Maximum design heat input capacity is greater than 100 MMBtu/hr (29 MW).
587	40 CFR Part 60, Subpart Db	60Db	Alternate Emission Limit (AEL) = The facility combusts byproduct/waste with either natural gas or oil and did not petition the EPA Administrator to establish a NO, emission limit that applies specifically when the byproduct/waste is combusted. Construction/Modification Date = After June 19, 1986, and before November 25, 1986. D-Series Fuel Type #1 = Natural gas. D-Series Fuel Type #2 = Byproduct/waste. Heat Input Capacity = Heat input capacity is greater than 100 MMBtu/hr (29 MW) but less than or equal to 250 MMBtu/hr (73 MW). PM Monitoring Type = No particulate monitoring. Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60. Subpart Db. for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. NOx Monitoring Type = No NOx, monitoring. SQ2 Monitoring Type = No SO2, monitoring. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60. Subpart E. Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of Subpart E. Subpart E = The affected facility does not meet applicability requirements of Subpart E. Subpart E = The affected facility does not meet applicability requirements of Subpart E. Subpart E = The affected facility does not meet applicability requirements of Subpart E. Subpart E = The affected facility so not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of Subpart KKKR. Technology Type = None.

Unit ID	Regulation	Index Number	Basis of Determination*
			Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. Unit Type = Duct burner as part of combined cycle system (compliance with NO _x limitations is determined by conducting a performance test). ACF Option - PM = Other ACF or no ACF. 60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. ACF Option - NOx = Other ACF or no ACF. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative.
587	40 CFR Part 60, Subpart Dc	60Dc	Construction/Modification Date = On or before June 9, 1989.
288	40 CFR Part 60, Subpart Db	60Db	Alternate Emission Limit (AEL) = The facility combusts byproduct/waste with either natural gas or oil and did not petition the EPA Administrator to establish a NO ₂ emission limit that applies specifically when the byproduct/waste is combusted. Construction/Modification Date = After June 19, 1986, and before November 25, 1986. D-Series Fuel Type #1 = Natural gas. D-Series Fuel Type #2 = Byproduct/waste. Heat Input Capacity = Heat input capacity is greater than 100 MMBtu/hr (29 MW) but less than or equal to 250 MMBtu/hr (33 MW). PM Monitoring Type = No particulate monitoring. Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da. Changes to Existing Affected Facility a No change has been made to the existing steam generating unit, which was not perviously a voliced to 40 CFR Part 60, Subpart Db. for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR 8 (6.28t). NOx Monitoring Type = No NO, monitoring. SUbpart E = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 80. Subpart E. Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E. Subpart KKKk = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E. Subpart KKKk = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart E. Subpart KKKk = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart E. ACF Option - SO2 = Other ACF or no ACF. Subpart EDut burner as part of combined cycle system (compliance with NO ₂ limitations is determined by conducting a performance test).

Unit ID	Regulation	Index Number	Basis of Determination*
			60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative. ACF Option - NOx = Other ACF or no ACF. 60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative.
588	40 CFR Part 60, Subpart Dc	60Dc	Construction/Modification Date = On or before June 9, 1989.
1180	40 CFR Part 60, Subpart GG	60GG-1	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Unit recovers heat from the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Previously approved custom fuel monitoring schedule. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
1180	40 CFR Part 60, Subpart GG	60GG-2	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Natural gas meeting the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
1180	40 CFR Part 63, Subpart YYYY	63YYYY	Construction/Reconstruction Date = Turbine was constructed, modified or reconstructed on or before 1/14/2003.
ESYS6B	40 CFR Part 60, Subpart GG	60GG-1	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Unit recovers meeting the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation.

Unit ID	Regulation	Index Number	Basis of Determination*
			Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Previously approved custom fuel monitoring schedule. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
ESYS6B	40 CFR Part 60, Subpart GG	60GG-2	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Liquid fuel Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel from a bulk storage tank. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
ESYS6B	40 CFR Part 60, Subpart GG	e-9909	Peak Load Heat Input = Heat Input is greater than 100 MIMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Natural gas meeting the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
ESYS6B	40 CFR Part 63, Subpart YYYY	<i></i>	Construction/Reconstruction Date = Turbine was constructed, modified or reconstructed on or before 1/14/2003.
ESYS8B	40 CFR Part 60, Subpart GG	60GG-1	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Unit recovers heat from the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Previously approved custom fuel monitoring schedule. Manufacturer's Rated Base Load = Base load is greater than 30 MW.

Unit ID	Regulation	Index Number	Basis of Determination*
ESYS8B	40 CFR Part 60, Subpart GG	60GG-2	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Liquid fuel Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel from a bulk storage tank. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
ESYS8B	40 CFR Part 60, Subpart GG	60GG-3	Peak Load Heat Input = Heat Input is greater than 100 MMBtu/hr (107.2 GJ/hr) Construction/Modification Date = On or after October 3, 1982 and before July 8, 2004. Sulfur Content = Compliance is demonstrated by determining the sulfur content of the fuel. Turbine Cycle = Unit recovers heat from the gas turbine exhaust to heat water or generate steam. Fuel Type Fired = Natural gas meeting the definition in § 60.331(u). Subpart GG Service Type = Type of service other than research and development, emergency, military or electrical utility generation. Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage. Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored. Manufacturer's Rated Base Load = Base load is greater than 30 MW.
ESYS8B	40 CFR Part 63, Subpart YYYY	63YYYY	Construction/Reconstruction Date = Turbine was constructed, modified or reconstructed on or before 1/14/2003.
1180	30 TAC Chapter 111, Visible Emissions	R1111	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.11(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.11(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.
587	30 TAC Chapter 111, Visible Emissions	R1111	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.11(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.11(a)(3). Construction Date = After January 31, 1972

Unit ID	Regulation	Index Number	Basis of Determination*
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.
288	30 TAC Chapter 111, Visible Emissions	R1111	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.
ENG-433	30 TAC Chapter 111, Visible Emissions	R1111	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113. Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit. Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.11(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.11(a)(3). Construction Date = After January 31, 1972 Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.

* - The "unit attributes" or operating conditions that determine what requirements apply

NSR Versus Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit (FOP)
Issued Prior to new Construction or modification of an existing facility	For initial permit with application shield, can be issued after operation commences; significant revisions require approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not authorize new emissions
Ensures issued permits are protective of the environment and human health by conducting a health effects review and that requirement for best available control technology (BACT) is implemented.	Applicable requirements listed in permit are used by the inspectors to ensure proper operation of the site as authorized. Ensures that adequate monitoring is in place to allow compliance determination with the FOP.
Up to two Public notices may be required. Opportunity for public comment and contested case hearings for some authorizations.	One public notice required. Opportunity for public comments. No contested case hearings.
Applies to all point source emissions in the state.	Applies to all major sources and some non-major sources identified by the EPA.
Applies to facilities: a portion of site or individual emission sources	One or multiple FOPs cover the entire site (consists of multiple facilities)
Permits include terms and conditions under which the applicant must construct and operate its various equipment and processes on a facility basis.	Permits include terms and conditions that specify the general operational requirements of the site; and also include codification of all applicable requirements for emission units at the site.
Opportunity for EPA review for Federal Prevention of Significant Deterioration (PSD) and Nonattainment (NA) permits for major sources.	Opportunity for EPA review, affected states review, and a Public petition period for every FOP.
Permits have a table listing maximum emission limits for pollutants	Permit has an applicable requirements table and Periodic Monitoring (PM) / Compliance Assurance Monitoring (CAM) tables which document applicable monitoring requirements.
Permits can be altered or amended upon application by company. Permits must be issued before construction or modification of facilities can begin.	Permits can be revised through several revision processes, which provide for different levels of public notice and opportunity to comment. Changes that would be significant revisions require that a revised permit be issued before those changes can be operated.
NSR permits are issued independent of FOP requirements.	FOPs are independent of NSR permits, but contain a list of all NSR permits incorporated by reference

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room,

located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. In addition, many of the permits are accessible online through the link provided below. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. Permit by Rule (PBR) registrations submitted by permittees are also available online through the link provided below. The following table specifies the PBRs that apply to the site.

The TCEQ has interpreted the emission limits prescribed in 30 TAC §106.4(a) as both emission thresholds and default emission limits. The emission limits in 30 TAC §106.4(a) are all considered applicable to each facility as a threshold matter to ensure that the owner/operator qualifies for the PBR authorization. Those same emission limits are also the default emission limits if the specific PBR does not further limit emissions or there is no lower, certified emission limit claimed by the owner/operator.

This interpretation is consistent with how TCEQ has historically determined compliance with the emission limits prior to the addition of the "as applicable" language. The "as applicable" language was added in 2014 as part of changes to the sentence structure in a rulemaking that made other changes to address greenhouse gases and was not intended as a substantive rule change. This interpretation also provides for effective and practical enforcement of 30 TAC §106.4(a), since for the TCEQ to effectively enforce the emission limits in 30 TAC §106.4(a) as emission thresholds, all emission limits must apply. As provided by 30 TAC §106.4(a)(2) and (3), an owner/operator shall not claim a PBR authorization if the facility is subject to major New Source Review. The practical and legal effect of the language in 30 TAC § 106.4 is that if a facility does not emit a pollutant, then the potential to emit for that particular pollutant is zero, and thus, the facility is not authorized to emit the pollutant pursuant to the PBR.

The status of air permits, applications, and PBR registrations may be found by performing the appropriate search of the databases located at the following website:

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

Details on how to search the databases are available in the **Obtaining Permit Documents** section below.

New Source Review Authorization References

Prevention of Significant Deterioration (PSD) Permits						
PSD Permit No.: PSDTX921	Issuance Date: 07/24/2019					
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.						
Authorization No.: 38481 Issuance Date: 07/24/2019						
Authorization No.: 9609A	Issuance Date: 09/01/2015					
Permits By Rule (30 TAC Chapter 106) for the Application Area						
Number: 106.261	Version No./Date: 09/04/2000					
Number: 106.261	Version No./Date: 11/01/2003					
Number: 106.263	Version No./Date: 11/01/2001					
Number: 106.371	Version No./Date: 03/14/1997					
Number: 106.472	Version No./Date: 09/04/2000					
Number: 106.511	Version No./Date: 09/04/2000					
Number: 61	Version No./Date: 07/20/1992					
Number: 111	Version No./Date: 09/12/1989					
Number: 118	Version No./Date: 09/12/1989					

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

Periodic Monitoring:

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information					
ID No.: 1180					
Control Device ID No.: N/A	Control Device Type: N/A				
Applicable Regulatory Requirement					
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111				
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)				
Monitoring Information					
Indicator: Fuel Type					
Minimum Frequency: Annually or at any time an alternate fuel is used					
Averaging Period: n/a					

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Basis of monitoring:

Unit/Group/Process Information ID No.: 587 Control Device ID No.: N/A Applicable Regulatory Requirement Name: 30 TAC Chapter 111, Visible Emissions Pollutant: Opacity Main Standard: § 111.111(a)(1)(C)

Monitoring Information

Indicator: Fuel Type

Minimum Frequency: Annually or at any time an alternate fuel is used

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Basis of monitoring:

Unit/Group/Process Information ID No.: 588 Control Device ID No.: N/A Applicable Regulatory Requirement Name: 30 TAC Chapter 111, Visible Emissions Pollutant: Opacity Main Standard: § 111.111(a)(1)(C)

Monitoring Information

Indicator: Fuel Type

Minimum Frequency: Annually or at any time an alternate fuel is used

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Basis of monitoring:

Unit/Group/Process Information ID No.: ENG-433 Control Device ID No.: N/A Applicable Regulatory Requirement Name: 30 TAC Chapter 111, Visible Emissions Pollutant: Opacity Main Standard: § 111.111(a)(1)(C)

Monitoring Information

Indicator: Fuel Type

Minimum Frequency: Annually or at any time an alternate fuel is used

Averaging Period: n/a

Deviation Limit: If alternative fuel is fired for > 24 consecutive hours, report as a deviation, or conduct observation using Test Method 22. Report as a deviation if visible emissions are observed using Test Method 22 and opacity > 15% using Test Method 9.

Basis of monitoring:

Obtaining Permit Documents

The New Source Review Authorization References table in the FOP specifies all NSR authorizations that apply at the permit area covered by the FOP. Individual NSR permitting files are located in the TCEQ Central File Room (TCEQ Main Campus located at 12100 Park 35 Circle, Austin, Texas, 78753, Building E, Room 103). They can also be obtained electronically from TCEQ's Central File Room Online (https://www.tceq.texas.gov/goto/cfr-online). Guidance documents that describe how to search electronic records, including Permits by Rule (PBRs) or NSR permits incorporated by reference into an FOP, archived in the Central File Room server are available at https://www.tceq.texas.gov/permitting/air/nav/air status permits.html

All current PBRs are contained in Chapter 106 and can be viewed at the following website:

https://www.tceq.texas.gov/permitting/air/permitbyrule/air_pbr_index.html

Previous versions of 30 TAC Chapter 106 PBRs may be viewed at the following website:

www.tceq.texas.gov/permitting/air/permitbyrule/historical rules/old106list/index106.html

Historical Standard Exemption lists may be viewed at the following website:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

Additional information concerning PBRs is available on the TCEQ website:

https://www.tceg.texas.gov/permitting/air/nav/air pbr.html

Compliance Review

<u> </u>		111-4	D
Comp	liance	History	Review

- 1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on <u>April 14, 2020.</u>
 Site rating: <u>0.45 / Satisfactory</u> Company rating: <u>0.17 / Satisfactory</u>
 (High < 0.10; Satisfactory ≥ 0.10 and ≤ 55; Unsatisfactory > 55)

Site/Permit Area Compliance Status Review

Were there any out-of-compliance units listed on Form OP-ACPS?

 Is a compliance plan and schedule included in the permit?

Available Unit Attribute Forms

- OP-UA1 Miscellaneous and Generic Unit Attributes
- OP-UA2 Stationary Reciprocating Internal Combustion Engine Attributes
- OP-UA3 Storage Tank/Vessel Attributes
- OP-UA4 Loading/Unloading Operations Attributes
- OP-UA5 Process Heater/Furnace Attributes
- OP-UA6 Boiler/Steam Generator/Steam Generating Unit Attributes
- OP-UA7 Flare Attributes
- **OP-UA8 Coal Preparation Plant Attributes**
- OP-UA9 Nonmetallic Mineral Process Plant Attributes
- OP-UA10 Gas Sweetening/Sulfur Recovery Unit Attributes
- **OP-UA11 Stationary Turbine Attributes**
- OP-UA12 Fugitive Emission Unit Attributes
- OP-UA13 Industrial Process Cooling Tower Attributes
- **OP-UA14 Water Separator Attributes**
- OP-UA15 Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes

- OP-UA16 Solvent Degreasing Machine Attributes
- OP-UA17 Distillation Unit Attributes
- OP-UA18 Surface Coating Operations Attributes
- OP-UA19 Wastewater Unit Attributes
- OP-UA20 Asphalt Operations Attributes
- OP-UA21 Grain Elevator Attributes
- OP-UA22 Printing Attributes
- OP-UA24 Wool Fiberglass Insulation Manufacturing Plant Attributes
- OP-UA25 Synthetic Fiber Production Attributes
- OP-UA26 Electroplating and Anodizing Unit Attributes
- OP-UA27 Nitric Acid Manufacturing Attributes
- OP-UA28 Polymer Manufacturing Attributes
- OP-UA29 Glass Manufacturing Unit Attributes
- OP-UA30 Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes
- OP-UA31 Lead Smelting Attributes
- OP-UA32 Copper and Zinc Smelting/Brass and Bronze Production Attributes
- OP-UA33 Metallic Mineral Processing Plant Attributes
- OP-UA34 Pharmaceutical Manufacturing
- OP-UA35 Incinerator Attributes
- OP-UA36 Steel Plant Unit Attributes
- OP-UA37 Basic Oxygen Process Furnace Unit Attributes
- OP-UA38 Lead-Acid Battery Manufacturing Plant Attributes
- OP-UA39 Sterilization Source Attributes
- OP-UA40 Ferroalloy Production Facility Attributes
- OP-UA41 Dry Cleaning Facility Attributes
- OP-UA42 Phosphate Fertilizer Manufacturing Attributes
- OP-UA43 Sulfuric Acid Production Attributes
- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Drver/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes
- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- OP-UA58 Treatment Process Attributes
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes

Certified Mail 7017 2620 0001 1517 8336

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

Union Carbide Corporation CN601688781 Seadrift Facility RN102181526 Energy Systems, Title V Permit # 02027 Title V Permit 02027 Renewal Application

Dear Mr. Bowers:

The renewal application for Title V Operating Permit O2027, Energy Systems, for Union Carbide Corporation is enclosed. Forms OP-CRO1, OP-1, OP-2, OP-SUMR, OP-REQ1, OP-UAs and OP-ACPS are attached.

Should there be any questions regarding this submittal, I can be contacted at (979) 238-1037 or via e-mail at MDKhan@dow.com.

Sincerely,
Vanus a Peppers for Danish Khan

Danish Khan

Air Permit Manager

The Dow Chemical Company

XC:

TCEQ Air Section Manager

TCEQ Air Program 6300 Ocean Dr, Unit 5839, NRC Bldg, Ste 1200, Houston, TX 77023-1486

Environmental Protection Agency Air Permits Section (6PD-R) R6airpermitsTX@epa.gov

Email

Kyle Lofland
Vanessa Peppers
Fran Falcon
Pearl Eke
Danish Khan
The Dow Chemical Company
The Dow Chemical Company
The Dow Chemical Company
The Dow Chemical Company

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SECTION 1 - General Administrative Forms

This Section contains the following forms:

OP-1 Site Information Summary

OP-2 Application for Permit Revision/Renewal

OP-CRO1 Certification By Responsible Official

OP-SUMR Individual Unit Summary
OP-MON Monitoring Requirements

OP-1 Site Information Summary

Texas Commission on Environmental Quality Federal Operating Permit Program Site Information Summary Form OP-1 (Page 1)

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250. Address written inquiries to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

I.	Company Identifying Information										
A.	Company Name: Union Carbide Corporation										
В.	Customer Reference Number (CN): CN601688781										
C.	Submittal Date (mm/dd/y	yyy): 11 ,	/06/201	9							
II.	Site Information										
A.	Site Name: Seadrift Fac	ility									
В.	Regulated Entity Referen	ce Numb	er (RN):	RN102	181526						
C.	Primary Account Number	r for Site	CB-002	8-T							
D.	Indicate affected state(s)	required	to review	permit a	pplication	n: (Chec	k the app	ropriate	box[es].)		
AR [CO KS LA N	M 🗌 Ol	K N/A	\square							
Е.	Indicate all pollutants for	which th	e site is a	major so	ource bas	ed on the	site's po	tential to	emit:		
Pollu	ıtant	voc	NOx	SO ₂	PM ₁₀	CO	Pb	HAPS	Other [
Majo	or at the Site (YES/NO):	YES	YES	NO	YES	YES	NO	YES	NO		
F.	Is the site a non-major so	urce subj	ect to the	Federal	Operating	g Permit l	Program?		YES [⊠ NO	
G.	Is the site within a local p	rogram a	rea juriso	diction?					YES [⊠ NO	
Н.	Will emissions averaging	be used	to comply	y with an	y Subpar	t of 40 Cl	FR Part 6	3?	YES [⊠ NO	
I.	Indicate the 40 CFR Part	63 Subpa	art(s) that	will use	emission	s averagi	ng:	NA			
III.	Permit Type										
A.	Type of Permit Requested	d: (Selec	t only one	e respons	e)						
Site	Operating Permit (SOP)	Tempor	ary Oper	ating Per	mit (TOF) Gen	eral Ope	rating Pe	ermit (GOI	P) 🗌	
IV.	V. Initial Application Information (Complete for Initial Issuance Applications only.)										
A.	Is this submittal an abbreviated or a full application?							Abbre	viated 🔀	Full	
B.	If this is a full application, is the submittal a follow-up to an abbreviated application?							ation?	YES [⊠ NO	
C.	If this is an abbreviated a Acid Rain permit?	pplication	n, is this a	an early s	ubmittal	for a com	nbined SO	OP and	☐ YES [⊠ NO	
D.	Has a copy of this applicato the form instructions for				being sub	omitted) to	o EPA? (Refer	⊠ YES [NO	

Texas Commission on Environmental Quality Federal Operating Permit Program Site Information Summary Form OP-1 (Page 2)

V.	Confidential Information						
Α.	Is confidential information submi	tted in conjunction with this application?		☐ YES ⊠ NO			
VI.	Responsible Official (RO)						
A.	RO Name: (Mr. Mrs. Mrs. Dr.) Wes Heinlein						
В.	RO Title: Seadrift Operations Director						
C.	Employer Name: Union Carbid	e Corporation					
D.	Mailing Address: P.O. Box 186						
City:	City: Port Lavaca State: Texas ZIP Code: 77979						
Terri	tory:	de:					
E.	Internal Mail Code: Building 1						
F.	Telephone No.: (361) 553-2266	;					
G.	Fax No.: (361) 553-3464						
Н.	Email: WAHeinlein@dow.com						
VII.	Technical Contact Identifying	Information (Complete if different from	ı RO.)				
A.	Technical Contact Name: (Mr	. Mrs. Ms. Dr.) Danish Khan					
B.	Technical Contact Title: Air Perr	nit Manager					
C.	Employer Name: Dow Chemical	Company					
D.	Mailing Address: 332 SH 332 E.						
City:	Lake Jackson	State: Texas	ZIP Code: 77566				
Terri	tory:	Country:	Foreign Postal Co	de:			
E.	Internal Mail Code: LJ APB						
F.	Telephone No.: (979) 238-1037	7					
G.	Fax No.:						
Н.	Email: MDKhan@dow.com						

Texas Commission on Environmental Quality Federal Operating Permit Program Site Information Summary Form OP-1 (Page 3)

VIII.	Reference Only Requirement	s (For reference only.)					
A.	State Senator: Senator Lois Kol	khorst					
В.	State Representative: Represent	ative Geanie W. Morrison					
C.	Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)? ✓ YES ☐ NO ☐ N/A						
D.	Is the site subject to bilingual not	ice requirements pursuant to 30 TAC	C § 122.322?	⊠ YES □ NO			
Е.	Indicate the alternate language(s)	in which public notice is required:	Spanish				
IX.	Off-Site Permit Request (Optional for applicants requesting to hold the FOP and records at an off-site location.)						
A.	Office/Facility Name:						
В.	Physical Address:						
City:		State:	ZIP Code:				
Territ	tory:	Country:	Foreign Posta	1 Code:			
C.	Physical Location:						
D.	Contact Name: (Mr. Mrs.	Ms. Dr.)					
E.	Telephone No.:						
Х.	Application Area Information	1					
A.	Area Name: Energy Systems						
В.	Physical Address: P.O. Box 186						
City:	Port Lavaca	State: Texas	ZIP Code: 7'	7979			
C.	Physical Location: State Highwa	ay 185, North Seadrift, TX 77983	3				
D.	Nearest City: Seadrift						
E.	State: Texas						
F.	ZIP Code: 77983						
G.	Latitude (nearest second): 28 30 59						
Н.	Longitude (nearest second): -96	46 05					
I.	Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal? ☐ YES ☒ NO						
J.	Indicate the estimated number of	emission units in the application area	a: 10				
K.	Are there any emission units in the	e application area subject to the Acid	d Rain Program?	☐ YES ⊠ NO			

Texas Commission on Environmental Quality Federal Operating Permit Program Site Information Summary Form OP-1 (Page 4)

XI.	II. Public Notice (Complete this section for SOP Applications and Acid Rain Permit Applications only.)						
A.	Name of public place to view application and draft permit: Calhoun County Public Library						
B.	Physical Address: 200 W. Maha	n					
City:	Port Lavaca	ZIP	Code: 77979				
C.	Contact Person (Someone who wi	ill answer questions from	the public, durir	ng the public notice period):			
(<u>N</u>	Mr. Mrs. Ms. Dr.): Danis	sh Khan					
D.	Contact Mailing Address: 332 SH	I 332 E.					
City:	Lake Jackson	State: Texas		ZIP Code: 77566			
Terri	tory:	Country:		Foreign Postal Code:			
E.	Internal Mail Code: LJ APB						
F.	Telephone No.: (979) 238-1037	7					
XII.	Delinquent Fees and Penalties	3					
	ce: This form will not be processed they General on behalf of the TCEO			owed to the TCEQ or the Office of uent Fee and Penalty Protocol."			
	plete Sections XIII and XIV for A ificate of Representation submitt		SAPR applicati	ons only. Please include a copy of the			
XIII.	Designated Representative (D	R) Identifying Informat	tion				
A.	DR Name: (Mr. Mrs. Mrs. M	ſs. Dr.)					
В.	DR Title:						
C.	Employer Name:						
D.	Mailing Address:						
City:		State:		ZIP Code:			
Terri	tory:	Country:		Foreign Postal Code:			
Е.	Internal Mail Code:						
F.	Telephone No.:						
G.	Fax No.:						
H.	Email:						

Texas Commission on Environmental Quality Federal Operating Permit Program Site Information Summary Form OP-1 (Page 5)

XIV.	XIV. Alternate Designated Representative (ADR) Identifying Information						
Α.	. ADR Name: (Mr. Mrs. Ms. Dr.)						
В.	ADR Title:						
C.	Employer Name:						
D.	Mailing Address:						
City:		State:	ZIP Code:				
Terri	tory:	Country:	Foreign Postal Code:				
Е.	Internal Mail Code:						
F.	Telephone No.:						
G.	Fax No.:						
H.	Email:						



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

Date:		11/06/2019									
Permit	No.:	02027									
Regula	ted Entity No.:	RN1021815	26								
Compa	ny Name:	Union Carbide Corporation									
For Su	bmissions to EPA (SOP renewal,	minor revis	sion, and sig	nificant revi	ision applica	ition only)				
Has a c	opy of this applicati	on been subi	nitted (or is	s being subr	nitted) to El	PA?					⊠YES □ NO
I.	Application Type										
Indicat	e the type of applica	ition:									
⊠ Ren	ewal	☐ Stream	lined Revis	ion (Must ir	ıclude provi	sional term	s and condi	tions as exp	lained i	in the instructions	.)
☐ Sign	ificant Revision	☐ Revisio	n Requesti	ng Prior Ap	proval	☐ Adr	ninistrative	Revision		☐ Response to R	eopening
II.	Qualification State	ement									
For SO	P Revisions Only T	he reference	d changes q	ualify for th	ne marked r	evision type	<u>)</u> .				⊠YES □ NO
For GO	P Revisions Only T	he permitted	l area contii	nues to qua	lify for a GO	P.					□YES □ NO
III.	Major Source Poll	utants (Com	plete this	section if t	he permit r	evision is d	lue to a cha	nge at the	site or	change in regula	tions.)
Indicat	e all pollutants for v	vhich the site	e is a major	source base	ed on the site	e's potential	l to emit afte	er the chang	ge is op	erated:	
	Pollutant	voc	NOx	SO ₂	PM ₁₀	СО	Pb	HAPs		Other	•
Major a	nt the site (O):	YES	YES	NO	YES	YES	NO	YES	NO		
IV.	Reference Only Ro	equirement	s (For refere	ence only)							
Has the	Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)? ☑ YES ☐ NO ☐ N/A										
V.	Delinquent Fees and Penalties										
II	This form will not are paid in accordan				, 1		ed the TCEQ	or the Offic	ce of the	Attorney General	on behalf of the

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

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526
Company Name:	Union Carbide Corporation

I. Description of Revision

			Unit/Group Proc	ess			
Revision No.	Revision Code	New Unit	ID No.	Applicable Form	NSR Authorization	Description of change and Provisional Terms and Conditions	
1	MS-C	NO	ENG-433	OP-UA2	PBR 106.511	Emergency diesel engine was authorized via Permit by Rule 106.511. An OP-NOTIFY was submitted to TCEQ on June 12, 2015. This engine complies with the applicable requirement of NSPS IIII and MACT ZZZZ.	

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

Date	e:	11/06/2019						
Permit No.:		02027						
Reg	ulated Entity No.:	RN102181526						
Con	npany Name:	Union Carbide Corporation						
I.	Significant Revision significant revision.)	(Complete this section if you are submitting a significant revision application or a renewal app	lication that includes a					
A.	Is the site subject to l	oilingual requirements pursuant to 30 TAC § 122.322?	□YES □ NO					
B.	Indicate the alternate required:	e language(s) in which public notice is						
C.	Will there be a chang	e in air pollutant emissions as a result of the significant revision	□YES □ NO					
D.	Indicate the air pollu	tant(s) that will be changing and include a brief description of the change in pollutant emission	ons for each pollutant:					
Pollutant Description of the Change in Pollutant Emissio								
		NA						



Form OP-CRO1 Certification by Responsible Official Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information					
RN: RN102181526	CN: CN601688	781	Accour	nt No.: CB-002	8-T
Permit No.: 02027		Project No.:	TBD		
Area Name: Energy Systems		Company Na	ame: Union Carb	ide Corporati	on
II. Certification Type (Please mark	Certification Type (Please mark the appropriate box)				
Responsible Official		Duly A	uthorized Represe	ntative	
III. Submittal Type (Please mark th	ne appropriate box)	(Only one re	esponse can be acc	epted per form)
SOP/TOP Initial Permit Application	n Update	e to Permit Ap	oplication		
GOP Initial Permit Application	🔀 Permit	Revision, Re	enewal, or Reopen	ing	
Other:					
IV. Certification of Truth					
This certification does not extend to only.	information whicl	h is designate	ed by the TCEQ a	ns information	for reference
I, Brooke Barne		certif	fy that I am the		
(Certifier Name printed o	or typed)			(RO or D	AR)
and that, based on information and beli the time period or on the specific date(and informatio	n dated during
Note: Enter Either a Time Period OR certification is not valid without docum		r each certific	cation. This section	n must be comp	leted. The
Time Period: From		to			
	Start Date		End	l Date	
Specific Dates: 11/06/2019	D. (. 2	D 4 2	D-4-4	D-4-5	- Duta (
Date 1	Date 2	Date 3	Date 4	Date 5	Date 6
Signature: Rlum R			Signature Date	11/6/19	
Title: Responsible Care Leader					

OP-SUMR Individual Unit Summary

Texas Commission on Environmental Quality Federal Operating Permit Program Individual Unit Summary for Revisions Form OP-SUMR Table 1

Date: 11/06/2019 Regulated Entity No.: RN102181526 Permit No.: 02027

Company Name: Union Carbide Corporation Area Name: Energy Systems

				Preconstruction	on Authorizations		
AI	Revision No.	ID No.	Applicable Form	Name/ Description CAM		30 TAC Chapter 116/30 TAC Chapter 106	Title I
		ESYS6B	OP-UA11	Gas Turbine Generator A		9609A	
		ESYS8B	OP-UA11	Gas Turbine Generator B		9609A	
		587	OP-UA6 OP-UA15	HRSG A		9609A	
		588	OP-UA6 OP-UA15	HRSG B		9609A	
		1180	OP-UA11	Cogeneration Stack – Turbine Only		38481, PSDTX921	
		1180	OP-UA6 OP-UA15	Cogeneration Stack – HRSG Only		38481, PSDTX921	
	1	ENG-433	OP-UA2	Emergency Diesel Engine		PBR 106.511	

OP-MON Monitoring Requirements

Texas Commission on Environmental Quality Monitoring Requirements Form OP-MON (Page 1) Federal Operating Permit Program

Table 1a: CAM/PM Additions

I.	Identifying Information			
Acco	ount No.: CB-0028-T	RN No.: RN	102181526	CN: CN601688781
Perr	nit No.: 02027		Project No.: TBD	
Area	Name: Energy Systems			
Com	pany Name: Union Carbide Corpora	tion		
II.	Unit/Emission Point/Group/Proces	ss Information	on	
Revi	sion No.:			
Unit	/EPN/Group/Process ID No.: 587			
Appl	icable Form: OP-UA15			
III.	Applicable Regulatory Requireme	nt		
Nam	e: 30 TAC Chapter 111, Visible Emis	sions		
SOF	P/GOP Index No.: R1111			
Pollu	utant: Opacity			
Mair	n Standard: 111.111(a)(1)(c)			
IV.	Title V Monitoring Information			
Mon	itoring Type: PM			
Unit	Size:			
CAN	//PM Option No.: PM-P-029			
Devi	ation Limit: 15% Maximum			
CAN	CAM/PM Option No.:			
Devi	ation Limit:			
٧.	Control Device Information			
Con	trol Device ID No.:			
Con	trol Device Type:			

Texas Commission on Environmental Quality Monitoring Requirements Form OP-MON (Page 1) Federal Operating Permit Program

Table 1a: CAM/PM Additions

I.	Identifying Information			
Acco	unt No.: CB-0028-T	RN No.: RN	102181526	CN: CN601688781
Perm	nit No.: 02027		Project No.: TBD	
Area	Name: Energy Systems			
Com	pany Name: Union Carbide Corpora t	tion		
II.	Unit/Emission Point/Group/Proces	ss Information	on	
Revis	sion No.:			
Unit/l	EPN/Group/Process ID No.: 588			
Appli	cable Form: OP-UA15			
III.	Applicable Regulatory Requireme	nt		
Name	e: 30 TAC Chapter 111, Visible Emis	sions		
SOP	GOP Index No.: R1111			
Pollu	tant: Opacity			
Main	Standard: 111.111(a)(1)(c)			
IV.	Title V Monitoring Information			
Moni	toring Type: PM			
Unit S	Size:			
CAM	/PM Option No.: PM-P-029			
Devia	ation Limit: 15% Maximum			
CAM	/PM Option No.:			
Devia	ation Limit:			
V.	Control Device Information			
Conti	rol Device ID No.:			
Conti	rol Device Type:			

Texas Commission on Environmental Quality Monitoring Requirements Form OP-MON (Page 1) Federal Operating Permit Program

Table 1a: CAM/PM Additions

I. Identifying Information				
Account No.: CB-0028-T	RN No.: RN1	102181526	CN: CN601688781	
Permit No.: 02027		Project No.: TBD		
Area Name: Energy Systems				
Company Name: Union Carbide Corporat	tion			
II. Unit/Emission Point/Group/Proces	s Information	on	_	
Revision No.:				
Unit/EPN/Group/Process ID No.: 1180				
Applicable Form: OP-UA15				
III. Applicable Regulatory Requirement	nt			
Name: 30 TAC Chapter 111, Visible Emiss	sions			
SOP/GOP Index No.: R1111				
Pollutant: Opacity				
Main Standard: 111.111(a)(1)(c)				
IV. Title V Monitoring Information				
Monitoring Type: PM				
Unit Size:				
CAM/PM Option No.: PM-P-029				
Deviation Limit: 15% Maximum				
CAM/PM Option No.:	CAM/PM Option No.:			
Deviation Limit:				
V. Control Device Information				
Control Device ID No.:				
Control Device Type:				

SECTION 2 - Unit Attribute Forms

The section contains the following forms:

OP-UA2	Stationary Reciprocating Internal Combustion Engine Attributes
OP-UA6	Boilers/Steam generators/Steam Generating Unit Attributes
OP-UA11	Stationary Turbine Attributes
OP-UA15	Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes

OP-UA2 Stationary Reciprocating Internal Combustion Engine Attributes

Texas Commission on Environmental Quality Stationary Reciprocating Internal Combustion Engine Attributes Form OP-UA2 (Page 4)

Federal Operating Permit Program

Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary
Reciprocating Internal Combustion Engines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
ENG-433	63ZZZZ	MAJOR	250-300	06+		LIM	

Texas Commission on Environmental Quality Stationary Reciprocating Internal Combustion Engine Attributes Form OP-UA2 (Page 5)

Federal Operating Permit Program

Table 2b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary
Reciprocating Internal Combustion Engines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Operating Hours	Different Schedule	Emission Limitation	Displacement
ENG-433	63ZZZZ					

Texas Commission on Environmental Quality Stationary Reciprocating Internal Combustion Engine Attributes Form OP-UA2 (Page 6)

Federal Operating Permit Program

Table 2c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary
Reciprocating Internal Combustion Engines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Crankcase	Performance Test	Control Technique	Operating Limits	Monitoring System
ENG-433	63ZZZZ					

Texas Commission on Environmental Quality Stationary Reciprocating Internal Combustion Engine Attributes Form OP-UA2 (Page 10)

Federal Operating Permit Program

Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Applicability Date	Exemptions	Service	Commencing	Manufacture Date
ENG-433	60IIII	2005+	NONE	EMERG	CON	0406+

Texas Commission on Environmental Quality Stationary Reciprocating Internal Combustion Engine Attributes Form OP-UA2 (Page 11)

Federal Operating Permit Program

Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
ENG-433	60IIII	DIESEL		10-		2015	

Texas Commission on Environmental Quality Stationary Reciprocating Internal Combustion Engine Attributes Form OP-UA2 (Page 12)

Federal Operating Permit Program

Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Kilowatts	Filter	Standards	Compliance Option	PM Compliance	Options
ENG-433	60IIII	E130-368		NO	MANU YES		

v Chemical Company CN600356976	Page 12	Title V Renewa
OP-UA6 Boilers/Steam generate	ors/Steam Generating	Unit Attributes

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 6) Federal Operating Permit Program

Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Construction/ Modification Date	Heat Input Capacity	Subpart Da	Changes to Existing Affected Facility	Subpart Ea, Eb, or AAAA	Subpart KKKK	Subpart Cb or BBBB
587	60Db	86-86	100-250	NO	NO	NO	NO	NO
588	60Db	86-86	100-250	NO	NO	NO	NO	NO
1180	60Db	97-05CR	250+	NO	NO	NO	NO	NO

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 7) Federal Operating Permit Program

Table 3b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	Subpart D	Subpart J	Subpart E	ACF Option SO ₂	ACF Option PM	ACF Option NO _x
587	60Db	NG	BPW			NO	NO	OTHR	OTHR	OTHR
588	60Db	NG	BPW			NO	NO	OTHR	OTHR	OTHR
1180	60Db	NG				NO	NO	OTHR	OTHR	OTHR

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 8) Federal Operating Permit Program

Table 3c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	60.42b (k)(2) Low Sulfur Exemption	60.42b (k)(4) Alternative	Post- Combustion Control	60.43b(h)(2) Alternative	Electrical or Mechanical Output	Output Based Limit	Steam with Electricity	Electricity Only	60.49 Da(n) Alternative	60.49 Da(m) Alternative
587	60Db									NO	NO
588	60Db									NO	NO
1180	60Db					NO				NO	NO

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 9) Federal Operating Permit Program

Table 3d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Residual Oil Sampling	Monitoring Type PM	Monitoring Type Opacity	Monitoring Type NOx	Monitoring Type SO ₂	Technology Type	Unit Type	Heat Release Rate	Heat Input Gas/Oil	Heat Input Wood	Fuel Heat Input
587	60Db		NONE	NONE	NONE	NONE	NONE	DCTBRN1				
588	60Db		NONE	NONE	NONE	NONE	NONE	DCTBRN1				
1180	60Db		NONE	NONE	NONE	NONE	NONE	DCTBRN1				

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 10) Federal Operating Permit Program

Table 3e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Alternate Emission Limit (AEL)	AEL ID. NO.	Facility Type	Monitoring Device	Common Fuel Source
587	60Db					
588	60Db					
1180	60Db	NO				

OP-U11 Stationary Turbine Attributes

Texas Commission on Environmental Quality Stationary Turbine Attributes Form OP-UA11 (Page 1)

Federal Operating Permit Program

Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GG: Stationary Gas Turbines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Peak Load Heat Input	Construction/ Modification Date	Turbine Cycle	Subpart GG Service Type	Federal Register	Manufacturer's Rated Base Load
ESYS6B	60GG-1	100+	82-04	СОМВ	OTHER		30+
ESYS6B	60GG-2	100+	82-04	СОМВ	OTHER		30+
ESYS6B	60GG-3	100+	82-04	СОМВ	OTHER		30+
ESYS8B	60GG-1	100+	82-04	СОМВ	OTHER		30+
ESYS8B	60GG-2	100+	82-04	СОМВ	OTHER		30+
ESYS8B	60GG-3	100+	82-04	СОМВ	OTHER		30+
1180	60GG-1	100+	82-04	СОМВ	OTHER		30+
1180	60GG-2	100+	82-04	СОМВ	OTHER		30+

Texas Commission on Environmental Quality Stationary Turbine Attributes Form OP-UA11 (Page 2)

Federal Operating Permit Program

Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart GG: Stationary Gas Turbines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	NO _x Control Method	NO _x Monitoring Method	Alternative Monitoring ID No.	Regulated Under Part 75	Turbine Combustion Process	CEMS Performance Evaluation
ESYS6B	60GG-1						
ESYS6B	60GG-2						
ESYS6B	60GG-3						
ESYS8B	60GG-1						
ESYS8B	60GG-2						
ESYS8B	60GG-3						
1180	60GG-1						
1180	60GG-2						

Texas Commission on Environmental Quality Stationary Turbine Attributes Form OP-UA11 (Page 3)

Federal Operating Permit Program

Table 1c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart GG: Stationary Gas Turbines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP/GOP Index No.	Duct Burner	NO _x Allowance	Sulfur Content	Fuel Type Fired	Fuel Supply	Fuel Monitoring Schedule	Custom Fuel Monitoring ID No.
ESYS6B	60GG-1			YES	NG	NONE	PREV	07/14/2003
ESYS6B	60GG-2			YES	LIQ	BULK		
ESYS6B	60GG-3			YES	NG	NONE	331U	
ESYS8B	60GG-1			YES	NG	NONE	PREV	07/14/2003
ESYS8B	60GG-2			YES	LIQ	BULK		
ESYS8B	60GG-3			YES	NG	NONE	331U	
1180	60GG-1			YES	NG	NONE	PREV	07/14/2003
1180	60GG-2			YES	NG	NONE	331U	

Texas Commission on Environmental Quality Stationary Turbine Attributes Form OP-UA11 (Page 11)

Federal Operating Permit Program

Table 5: Title 40 Code of Federal Regulations, Part 63 (40 CFR, Part 63)

Subpart YYYY: National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Construction/ Reconstruction Date	Rated Peak Power Output	Type of Service	Fuel Fired	Turbine Combustion Process	Oxidation Catalyst	Alternate Limitations	Previous Performance Test	Distillate Oil Fired
ESYS6B	60GG-1	03-								
ESYS6B	60GG-2	03-								
ESYS6B	60GG-3	03-								
ESYS8B	60GG-1	03-								
ESYS8B	60GG-2	03-								
ESYS8B	60GG-3	03-								
1180	60GG-1	03-								
1180	60GG-2	03-								

OP-UA15 Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes

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

Date: 11/06/2019	Permit No.: 02027	Regulated Entity No.: RN102181526
Area Name: Energy Systems		Customer Reference No.: CN601688781

Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
587	R1111	NO		OTHER	NONE	72+	100+
588	R1111	NO		OTHER	NONE	72+	100+
1180	R1111	NO		OTHER	NONE	72+	100+
ENG-433	R1111	NO		OTHER	NONE	72+	100-

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes Form OP-UA15 (Page 2)

Federal Operating Permit Program

Table 1b: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111) Subchapter A: Visible Emissions

Date: 11/06/2019	Permit No.: 02027	Regulated Entity No.: RN102181526
Area Name: Energy Systems		Customer Reference No.: CN601688781

Emission Point ID No.	SOP Index No.	Annual ACF	Heat Input	State Implementation Plan (SIP) Violation	Total Feed Capacity
587	R1111				
588	R1111				
1180	R1111				
ENG-433	R1111				

SECTION 3 - Applicability Identification Forms

This Section	contains	the fol	lowing	forms:
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OP-REQ1 Application Area-Wide Applicability Determinations and General Information

OP-REQ1 Application Area-Wide Applicability Determinations and General Information

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

Form	Form OP-REQ1: Page 1							
I.	Title	30 TA	AC Chapter 111 - Control of Air Pollution from Visible Emissions and Particular	late Matt	er			
	Α.	Visib	ole Emissions					
*		1.	The application area includes stationary vents constructed on or before January 31, 1972.	□YES	⊠NO			
*		2.	The application area includes stationary vents constructed after January 31, 1972. If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6. If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.	⊠YES	□NO			
*		3.	The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.	□YES	□NO			
♦		4.	All stationary vents are addressed on a unit specific basis.	⊠YES	□NO			
*		5.	Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.	⊠YES	□NO			
♦		6.	The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	□YES	⊠NO			
♦		7.	The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).	□YES	⊠NO			
*		8.	Emissions from units in the application area include contributions from uncombined water.	□YES	⊠NO			
*		9.	The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).	☐YES	⊠NO □N/A			

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

Forn	n OP-	REQ1	: Pag	e 2					
I.		e 30 T. tinued		napter 111 - Control of Air Pollution from Visible Emissions and Particu	late Matt	er			
	В.	Mat	erials	Handling, Construction, Roads, Streets, Alleys, and Parking Lots					
		1. Items a - d determines applicability of any of these requirements based on geographical location.							
♦			a.	The application area is located within the City of El Paso.	□YES	⊠NO			
♦			b.	The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.	□YES	⊠NO			
♦			c.	The application area is located in the portion of Harris County inside the loop formed by Beltway 8.	□YES	⊠NO			
*			d.	The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988.	□YES	⊠NO			
				ere is any "YES" response to Questions I.B.1.a - d, answers Questions I.B.2.c uestions I.B.1.a-d are "NO," go to Section I.C.	า - d. If ali	l responses			
		2.	Item	s a - d determine the specific applicability of these requirements.					
♦			a.	The application area is subject to 30 TAC § 111.143.	□YES	□NO			
♦			b.	The application area is subject to 30 TAC § 111.145.	□YES	□NO			
♦			c.	The application area is subject to 30 TAC § 111.147.	☐YES	□NO			
♦			d.	The application area is subject to 30 TAC § 111.149.	☐YES	□NO			
	C.	Emi	ssions	Limits on Nonagricultural Processes	_				
♦		1.		application area includes a nonagricultural process subject to 30 TAC 1.151.	⊠YES	□NO			
		2.	subje	application area includes a vent from a nonagricultural process that is ect to additional monitoring requirements. The response to Question I.C.2 is "NO," go to Question I.C.4.	⊠YES	□NO			
		3.		vents from nonagricultural process in the application area are subject to tional monitoring requirements.	⊠YES	□NO			

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

Form	n OP-	REQ1	: Page 3		
I.		e 30 Ta tinued	AC Chapter 111 - Control of Air Pollution from Visible Emissions and Particular	late Matt	er
	C.	Emi	ssions Limits on Nonagricultural Processes (continued)		
		4.	The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).	□YES	⊠NO
		5.	□YES	⊠NO	
		6. All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.		□YES	□NO
		7. The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).		□YES	⊠NO
		8.	The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements. If the response to Question I.C.8 is "NO," go to Section I.D.	□YES	⊠NO
		9.	All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.	□YES	□NO
	D.	Emi	ssions Limits on Agricultural Processes		
		1.	The application area includes agricultural processes subject to 30 TAC § 111.171.	□YES	⊠NO
	E.	Outo	door Burning		
*		1.	Outdoor burning is conducted in the application area. If the response to Question I.E.1 is "NO," go to Section II.	□YES	⊠NO
•		2.	Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.	□YES	□NO
*		3.	Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.	□YES	□NO
*		4.	Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.	□YES	□NO

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

Forn	n OP-I	REQ1.	: Page 4		
I.		30 TA	AC Chapter 111 - Control of Air Pollution from Visible Emissions and Particular	late Matt	er
	E.	Outo	door Burning (continued)		
•		5.	Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.	□YES	□NO
•		6.	Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.	□YES	□NO
•		7.	The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.	□YES	□NO
II.	Title	30 TA	AC Chapter 112 - Control of Air Pollution from Sulfur Compounds		
	Α.	Tem	porary Fuel Shortage Plan Requirements		
		1.	The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.	□YES	⊠NO
III.	Title	30 TA	AC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds		
	A.	Appl	licability		
•		1.	The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10. See instructions for inclusive counties. If the response to Question III.A.1 is "NO," go to Section IV.	⊠YES	□NO
	В.	Stora	age of Volatile Organic Compounds		
*		1.	The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.	□YES	⊠NO

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

Form OP-REQ1: Page 5							
III.	Title	30 TA	AC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds	(continue	ed)		
	C.	C. Industrial Wastewater					
		1.	The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140. If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.	YES	□NO ⊠N/A		
		2.	The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area. If the response to Question III.C.2 is "YES" and the refinery is in the Beaumont/Port Arthur area, go to Section III.D.	□YES	□NO		
		3.	The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater). If the response to Question III.C.3 is "YES," go to Section III.D.	□YES	□NO		
		4.	The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons). If the response to Question III.C.4 is "YES," go to Section III.D.	□YES	□NO		
		5.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).	□YES	□NO		
		6.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).	□YES	□NO		
		7.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).	YES	□NO		
	D.	Load	ling and Unloading of VOCs				
♦		1.	The application area includes VOC loading operations.	YES	⊠NO		
*		2.	The application area includes VOC transport vessel unloading operations. For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.	□YES	⊠NO		

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

Forn	Form OP-REQ1: Page 6					
III.	Title	30 TA	AC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds	(continue	d)	
	D.	Loading and Unloading of VOCs (continued)				
*		3.	Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.	☐YES	□NO	
	E.	Fillin	ng of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Fac	ilities		
•		1.	The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container. If the response to Question III.E.1 is "NO," go to Section III.F.	□YES	⊠NO	
*		2.	Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.	☐YES	□NO	
•		3.	All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent. If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.	□YES	□NO	
*		4.	The application area is located in a covered attainment county as defined in 30 TAC § 115.10. If the response to Question III.E.4 is "NO," go to Question III.E.9.	☐YES	□NO	
♦		5.	Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	□YES	□NO	
*		6.	Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	☐YES	□NO	
*		7.	At facilities located in covered attainment counties other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014. If the response to Question III.E.7 is "YES," go to Section III.F.	☐YES	□NO	

Date:	11/06/2019
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Forn	Form OP-REQ1: Page 7					
III.	I. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)					
	E.	E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Faci				
*		8.	At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004. If the response to Question III.E.8 is "YES," go to Section III.F.	☐YES	□NO	
*		9.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	□YES	□NO	
•		10.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	□YES	□NO	
•		11.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.	YES	□NO	
•		12.	At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.	□YES	□NO	
	F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)					
♦		1.	Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.	YES	□NO ⊠N/A	

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Forn	Form OP-REQ1: Page 8					
III.	Title	30 T	AC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds	(continue	d)	
	F.	Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GO 511, 512, 513 and 514 only) (continued)				
*		2.	Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.	□YES	□NO □N/A	
♦		3.	Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.	□YES	□NO □N/A	
	G.	Con	trol of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing	g Facilitie	S	
*		1.	The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks.	□YES	⊠NO □N/A	
			If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.			
•		2.	The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	□YES	□NO	
•		3.	The application area includes facilities that began construction prior to November 15, 1992.	□YES	□NO	
			If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.			
♦		4.	The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	□YES	□NO	
*		5.	The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.	☐YES	□NO □N/A	

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Form	Form OP-REQ1: Page 9					
III.	Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)					
	H.	Control Of Reid Vapor Pressure (RVP) of Gasoline				
•		1.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County.	YES	⊠NO □N/A	
			If the response to Question III.H.1 is "NO" or "N/A," go to Section III.I.			
•		2.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.	☐YES	□NO	
♦		3.	The application area includes a motor vehicle fuel dispensing facility.	YES	□NO	
*		4.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	YES	□NO	
	I.	Proc	ess Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries	5		
		1.	The application area is located at a petroleum refinery.	YES	⊠NO	
	J.	Surface Coating Processes (Complete this section for GOP applications only.)				
•		1.	Surface coating operations (other than those performed on equipment located onsite and in-place) that meet the exemption specified in 30 TAC § 115.427(a)(3)(A) or 115.427(b)(1) are performed in the application area.	☐YES	□NO ⊠N/A	

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Forn	Form OP-REQ1: Page 10					
III.	II. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)					
	K.	Cutback Asphalt				
		1.	Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency. If the response to Question III.K.1 is "N/A," go to Section III.L.	□YES	□NO ⊠N/A	
		2.	The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.	□YES	□NO □N/A	
		3.	Asphalt emulsion is used or produced within the application area.	□YES	□NO	
		4.	The application area is using an alternate control requirement as specified in 30 TAC § 115.513. If the response to Question III.K.4 is "NO," go to Section III.L.	□YES	□NO	
		5.	The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).	□YES	□NO	
		6.	The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	□YES	□NO	
		7.	The applicant using cutback asphalt is a state, municipal, or county agency.	□YES	□NO	
	L.	Dega	ssing of Storage Tanks, Transport Vessels and Marine Vessels			
*		1.	The application area includes degassing operations for stationary, marine, and/or transport vessels. If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.	☐YES	⊠NO □N/A	
*		2.	Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. If the response to Question III.L.2 is "YES," go to Section III.M.	☐YES	□NO □N/A	

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Forn	Form OP-REQ1: Page 11				
III.	Title	30 TA	AC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds	(continue	d)
	L.	Dega	ssing of Storage Tanks, Transport Vessels and Marine Vessels (continued)		
*		3.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	□YES	□NO □N/A
*		4.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	□YES	□NO □N/A
*		5.	Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES	□NO
♦		6.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES	□NO □N/A
•		7.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure ≥ 0.5 psia that have sustained damage as specified in 30 TAC \S 115.547(5) is performed in the application area.	□YES	□NO □N/A
	M. Petroleum Dry Cleaning Systems				
		1.	The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	☐YES	□NO ⊠N/A

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Form OP-REQ1: Page 12							
III.	Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)						
	N.	Vent Gas Control (Highly-reactive volatile organic compounds (HRVOC)					
		1.	The application area includes one or more vent gas streams containing HRVOC.	□YES	□NO ⊠N/A		
		2.	The application area includes one or more flares that emit or have the potential to emit HRVOC. If the responses to Questions III.N.1 and III.N.2 are both "NO" or "N/A," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.	☐YES	□NO ⊠N/A		
		3.	All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.	□YES	□NO		
		4.	All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times. If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.	□YES	□NO		
		5.	The application area contains pressure relief valves that are not controlled by a flare.	YES	□NO		
		6.	The application area has at least one vent stream which has no potential to emit HRVOC.	YES	□NO		
		7.	The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	YES	□NO		
	0.	Cooli	ing Tower Heat Exchange Systems (HRVOC)				
		1.	The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.	YES	□NO ⊠N/A		

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Form	orm OP-REQ1: Page 13				
IV.	Title	30 TA	C Chapter 117 - Control of Air Pollution from Nitrogen Compounds		
	A.				
•		1.	The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour area. For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H. For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "YES," go to Section IV.F. For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F. For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.	YES	⊠NO
		2.	The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. If the response to Question IV.A.2 is "YES," go to Question IV.H.1.	□YES	⊠NO
		3.	The application area includes a utility electric generator in an east or central Texas county. See instructions for a list of counties included. If the response to Question IV.A.3 is "YES," go to Question IV.G.1. If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.	□YES	⊠NO
	В.	Utilit	y Electric Generation in Ozone Nonattainment Areas		
		1.	The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300. If the response to Question IV.B.1 is "NO," go to Question IV.C.1.	YES	□NO
		2.	The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.	□YES	□NO

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Form	Form OP-REQ1: Page 14					
IV.	Title	30 T	AC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continu	ied)		
	C.	. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas				
*		1.	The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400. For SOP applications, if the response to Question IV.C.1 is "NO," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "NO," go to Section IV.F.	□YES	□NO	
*		2.	The application area is located at a site that was a major source of NO_X before November 15, 1992.	□YES	□NO □N/A	
*		3.	The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	□YES	□NO	
	D.	Adij	pic Acid Manufacturing			
		1.	The application area is located at, or part of, an adipic acid production unit.	□YES	□NO □N/A	
	Ε.	Nitr	ic Acid Manufacturing - Ozone Nonattainment Areas			
		1.	The application area is located at, or part of, a nitric acid production unit.	□YES	□NO □N/A	
	F.		nbustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Prionary Engines and Gas Turbines	cocess He	aters,	
*		1.	The application area is located at a site that is a minor source of NO _X in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County). For SOP applications, if the response to Question IV.F.1 is "NO," go to Question IV.G.1. For GOP applications, if the response to Question IV.F.1 is "NO," go to Section VI.	□YES	□NO	
*		2.	The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).	□YES	□NO	
*		3.	The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).	□YES	□NO	

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Forn	Form OP-REQ1: Page 15				
IV.	Title	e 30 T	AC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continu	ied)	
	F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Ho Stationary Engines and Gas Turbines (continued)			rocess Heaters,	
*		4.	The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.	□YES □NO	
*		5.	The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	□YES □NO	
		6.	The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125. If the response to Question IV.F.6 is "NO," go to Section IV.G.	□YES □NO	
		7.	An ACSS for carbon monoxide (CO) has been approved?	□YES □NO	
		8.	An ACSS for ammonia (NH ₃) has been approved?	□YES □NO	
		9.	Provide the Permit Number(s) and authorization/issuance date(s) of the NSR projection incorporates an ACSS below.	ect(s) that	
	G.	Util	ity Electric Generation in East and Central Texas		
		1.	The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995. If the response to Question IV.G.1 is "NO," go to Question IV.H.1.	□YES □NO	
		2.	The application area is complying with the System Cap in 30 TAC § 117.3020.	□YES □NO	
	H.	Mul	ti-Region Combustion Control - Water Heaters, Small Boilers, and Process He	aters	
		1.	The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less. If the response to question IV.H.1 is "NO," go to Section V.	□YES ⊠NO	
		2.	All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	□YES □NO	

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Form	Form OP-REQ1: Page 16				
V.	Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products				ound
	Α.	Subp Coat	bile Refii	nish	
		1.	The application area manufactures automobile refinish coatings or coating components and sells or distributes these coatings or coating components in the United States.	□YES	⊠NO
		2.	The application area imports automobile refinish coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States. If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.	□YES	⊠NO
		3.	All automobile refinish coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).	□YES	□NO
	B. Subpart C - National Volatile Organic Compound Emission Standards for Consum		ier Produ	icts	
		1.	The application area manufactures consumer products for sale or distribution in the United States.	□YES	⊠NO
		2.	The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.	□YES	⊠NO
		3.	The application area is a distributor of consumer products whose name appears on the label of one or more of the products. If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.	□YES	⊠NO
		4.	All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).	□YES	□NO

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Forn	Form OP-REQ1: Page 17						
V.		Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)					
	C.	Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings					
		1.	The application area manufactures or imports architectural coatings for sale or distribution in the United States.	YES	⊠NO		
		2.	The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act. <i>If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.</i>	□YES	⊠NO		
		3.	All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5).	YES	□NO		
	D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings						
		1.	The application area manufactures or imports aerosol coating products for sale or distribution in the United States.	YES	⊠NO		
		2.	The application area is a distributor of aerosol coatings for resale or distribution in the United States.	YES	⊠NO		
	E. Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Contain				ers		
		1.	The application area manufactures or imports portable fuel containers for sale or distribution in the United States. If the response to Question V.E.1 is "NO," go to Section VI.	□YES	⊠NO		
		2.	All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).	□YES	□NO		
VI.	Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards						
	A.	A. Applicability					
*		1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts. If the response to Question VI.A.1 is "NO," go to Section VII.	⊠YES	□NO		

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Form	Form OP-REQ1: Page 18					
VI.	Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)					
	В.	B. Subpart Y - Standards of Performance for Coal Preparation and Processing Plants				
		1.	The application area is located at a coal preparation and processing plant. If the response to Question VI.B.1 is "NO," go to Section VI.C.	□YES	⊠NO	
		2.	The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). If the response to Question VI.B.2 is "NO," go to Section VI.C.	□YES	□NO	
		3.	The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. If the response to Question VI.B.3 is "YES," go to Section VI.C.	□YES	□NO	
		4.	The plant contains an open storage pile, as defined in § 60.251, as an affected facility. If the response to Question VI.B.4 is "NO," go to Section VI.C.	☐YES	□NO	
		5.	The open storage pile was constructed, reconstructed or modified after May 27, 2009.	□YES	□NO	
	C.	C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)				
*		1.	The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired. If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.D.	⊠YES	□NO □N/A	
*		2.	One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005. If the response to Question VI.C.2 is "NO," go to Section VI.D.	⊠YES	□NO	
♦		3.	One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).	⊠YES	□NO	
♦		4.	The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.	□YES	⊠NO	

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Forn	Form OP-REQ1: Page 19				
VI.	Title	40 C	ode of Federal Regulations Part 60 - New Source Performance Standards (cont	inued)	
	C.		part GG - Standards of Performance for Stationary Gas Turbines (GOP application)	ants only	')
*		5.	One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides.	⊠YES	□NO
	D.	Subj	part XX - Standards of Performance for Bulk Gasoline Terminals		
		1.	The application area includes bulk gasoline terminal loading racks. If the response to Question VI.D.1 is "NO," go to Section VI.E.	□YES	⊠NO □N/A
		2.	One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.	□YES	□NO
	Е.		part LLL - Standards of Performance for Onshore Natural Gas Processing: Sussions	lfur Diox	ide (SO ₂)
•		1.	The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore). For SOP applications, if the response to Question VI.E.1 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is "NO" or "N/A," go to Section VI.H.	☐YES	⊠NO
*		2.	The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011. For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H.	□YES	□NO
•		3.	The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD. For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H.	□YES	□NO

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Form	Form OP-REQ1: Page 20						
VI.	Title	40 C	ode of Federal Regulations Part 60 - New Source Performance Standards (cont	inued)			
	Е.		Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO ₂) Emissions (continued)				
•		4.	Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD. For SOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.H.	□YES	□NO		
*		5. Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.					
	F.	Subj	part OOO - Standards of Performance for Nonmetallic Mineral Processing Pla	nts			
		1.	The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant. If the response to Question VI.F.1 is "NO," go to Section VI.G.	☐YES	⊠NO		
		2.	Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.	□YES	□NO		
	G.	Sub _j Syst	part QQQ - Standards of Performance for VOC Emissions from Petroleum Reems	finery W	astewater		
		1.	The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987. If the response to Question VI.G.1 is "NO," go to Section VI.H.	☐YES	⊠NO		
		2.	The application area includes storm water sewer systems.	□YES	□NO		

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Forn	Form OP-REQ1: Page 21						
VI.	Title	40 Co	de of Federal Regulations Part 60 - New Source Performance Standards (cont	inued)			
	G.	_	Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)				
		3.	The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.	□YES	□NO		
		4.	The application area includes non-contact cooling water systems.	☐YES	□NO		
		5.	The application area includes individual drain systems. If the response to Question VI.G.5 is "NO," go to Section VI.H.	□YES	□NO		
		6.	The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	☐YES	□NO		
		7.	The application area includes completely closed drain systems.	□YES	□NO		
	Н.	Cons	part AAAA - Standards of Performance for Small Municipal Waste Incineration truction Commenced After August 30, 1999 or for Which Modification or Recommenced on or After June 6, 2004				
•		1.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator. If the response to Question VI.H.1. is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "NO," go to Question VI.H.4.	□YES	□NO ⊠N/A		
•		2.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.	□YES	□NO		
•		3.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	□YES	□NO		
♦		4.	The application area includes at least one air curtain incinerator. If the response to Question VI.H.4 is "NO," go to Section VI.I.	□YES	□NO		

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Forn	Form OP-REQ1: Page 22					
VI.	Title	40 Cc	ode of Federal Regulations Part 60 - New Source Performance Standards (cont	inued)		
	Н.	Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)				
*		5.	The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006. If the response to Question VI.H.5 is "NO," go to Question VI.H.7.	YES	□NO	
*		6.	All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.	□YES	□NO	
*		7.	The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	YES	□NO	
*		8.	All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.	□YES	□NO	
	I.	Units	part CCCC - Standards of Performance for Commercial and Industrial Solid Versions of Standards of Performance of Commercial and Industrial Solid Version Standards of Standard			
•		1.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator. If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.	☐YES	□NO ⊠N/A	
♦		2.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.	□YES	□NO	

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Forn	Form OP-REQ1: Page 23				
VI.	Title	40 Ca	ode of Federal Regulations Part 60 - New Source Performance Standards (cont	inued)	
	I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)				
*		3.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	□YES	□NO
•		4.	The application area includes at least one air curtain incinerator. If the response to Question VI.I.4 is "NO," go to Section VI.J.	□YES	□NO
*		5.	The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001. <i>If the response to Question VI.I.5 is "NO," go to VI.I.7.</i>	□YES	□NO
*		6.	All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	□YES	□NO
*		7.	The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	□YES	□NO
*		8.	All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	□YES	□NO

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Forn	Form OP-REQ1: Page 24						
VI.	Title	40 Cc	ode of Federal Regulations Part 60 - New Source Performance Standards (cont	inued)			
	J.	Cons	Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006				
*		1.	The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator. If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "NO," go to Question VI.J.4.	□YES	□NO ⊠N/A		
*		2.	The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.	☐YES	□NO		
*		3.	The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	YES	□NO		
*		4.	The application area includes at least one air curtain incinerator. If the response to Question VI.J.4 is "NO," go to Section VI.K.	☐YES	□NO		
*		5.	The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006. If the response to Question VI.J.5 is "NO," go to Question VI.J.7.	□YES	□NO		
*		6.	All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES	□NO		
*		7.	The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	☐YES	□NO		

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Form	Form OP-REQ1: Page 25						
VI.	Title	40 Cc	ode of Federal Regulations Part 60 - New Source Performance Standards (NSP	S) (contin	nued)		
	J.	Cons	Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)				
*		8.	All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	□YES	□NO		
*		9.	The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.	☐YES	□NO		
*		10.	The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES	□NO		
	K.		oart OOOO - Standards of Performance for Crude Oil and Natural Gas Produsmission and Distribution	ction,			
*		1.	The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.	YES	⊠NO		
VII.	Title	40 Cc	ode of Federal Regulations Part 61 - National Emission Standards for Hazardo	us Air Po	llutants		
	A.	Appl	licability				
*		1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts. If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.	□YES	⊠NO □N/A		
	В.	Subp	oart F - National Emission Standard for Vinyl Chloride				
		1.	The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride.	□YES	□NO		
	C.		oart J - National Emission Standard for Benzene Emissions for Equipment Leasion Sources) of Benzene (Complete this section for GOP applications only)	ıks (Fugit	ive		
*		1.	The application area includes equipment in benzene service.	YES	□NO □N/A		

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Form	Form OP-REQ1: Page 26					
VII.		Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)				
	D.	Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Reco				
		1.	The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b). <i>If the response to Question VII.D.1 is "NO," go to Section VII.E.</i>	□YES □NO		
		2.	The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).	□YES □NO		
		3.	The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.	□YES □NO		
	E. Subpart M - National Emission Standard for Asbestos					
		Appl	icability			
		1.	The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155.	□YES □NO		
			If the response to Question VII.E.1 is "NO," go to Section VII.F.			
		Road	lway Construction			
		2.	The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.	□YES □NO		
		Man	ufacturing Commercial Asbestos			
		3.	□YES □NO			
			Visible emissions are discharged to outside air from the manufacturing operation	□YES □NO		
			b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.	□YES □NO		

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Form	Form OP-REQ1: Page 27				
VII.	Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)				
	E. Sul	bpart M	- National Emission Standard for Asbestos (continued)		
	Ma	nufactu	ring Commercial Asbestos (continued)		
		c.	Asbestos-containing waste material is processed into non-friable forms.	□YES	□NO
		d.	Asbestos-containing waste material is adequately wetted.	□YES	□NO
		e.	Alternative filtering equipment is being used that has received EPA approval.	□YES	□NO
		f.	A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles	☐YES	□NO
		g.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	□YES	□NO
	Asl	bestos S _I	pray Application		
	4.	are sp	application area includes operations in which asbestos-containing materials bray applied. response to Question VII.E.4 is "NO," go to Question VII.E.5.	□YES	□NO
		a. If the	Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. response to Question VII.E.4.a is "YES," go to Question VII.E.5.	☐YES	□NO
		b.	Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	□YES	□NO
		c.	An alternative emission control and waste treatment method is being used that has received prior EPA approval.	□YES	□NO

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Form	Form OP-REQ1: Page 28					
VII.		Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)				
	E.	Subp	art M	- National Emission Standard for Asbestos (continued)		
		Asbe	stos S _I	pray Application (continued)		
			d.	Asbestos-containing waste material is processed into non-friable forms.	□YES	□NO
			e.	Asbestos-containing waste material is adequately wetted.	□YES	□NO
			f.	Alternative filtering equipment is being used that has received EPA approval.	□YES	□NO
			g.	A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	□YES	□NO
			h.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	□YES	□NO
		Fabr	icating	g Commercial Asbestos		
		5.		application area includes a fabricating operation using commercial asbestos. The response to Question VII.E.5 is "NO," go to Question VII.E.6.	□YES	□NO
			a.	Visible emissions are discharged to outside air from the manufacturing operation.	☐YES	□NO
			b.	An alternative emission control and waste treatment method is being used that has received prior EPA approval.	□YES	□NO
		_	c.	Asbestos-containing waste material is processed into non-friable forms.	☐YES	□NO
			d.	Asbestos-containing waste material is adequately wetted.	□YES	□NO
			e.	Alternative filtering equipment is being used that has received EPA approval.	□YES	□NO

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Form	Form OP-REQ1: Page 29						
VII.		le 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants ntinued)					
	E.	Subpart M - National Emission Standard for Asbestos (continued)					
		Fabric	ating Commercial Asbestos (continued)				
		f	A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	□YES	□NO		
		٤	g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	□YES	□NO		
		Non-sp	orayed Asbestos Insulation				
		☐YES	□NO				
		Asbestos Conversion					
		C	The application area includes operations that convert regulated asbestoscontaining material and asbestos-containing waste material into nonasbestos (asbestos-free) material.	□YES	□NO		
	F.		rt P - National Emission Standard for Inorganic Arsenic Emissions from Ars ic Arsenic Production Facilities	senic Trio	xide and		
		г	The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a coasting condensation process.	□YES	□NO		
	G.	Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations					
		t	The application area is located at a benzene production facility and/or bulk erminal. If the response to Question VII.G.1 is "NO," go to Section VII.H.	□YES	□NO		
		2.	The application area includes benzene transfer operations at marine vessel oading racks.	□YES	□NO		

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Forn	Form OP-REQ1: Page 30					
VII.		Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)				
	G.	Subj	ansfer Operations			
		3.	The application area includes benzene transfer operations at railcar loading racks.	□YES □NO		
		4.	The application area includes benzene transfer operations at tank-truck loading racks.	□YES □NO		
	H.	Subj	part FF - National Emission Standard for Benzene Waste Operations			
		Applicability				
		1.	The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	□YES □NO		
		2.	The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.	□YES □NO		
		3.	The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. If the response to Question VII.H.3 is "YES," go to Section VIII.	□YES □NO		
		4.	The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr). If the response to Question VII.H.4 is "YES," go to Section VIII	□YES □NO		
		5.	The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr. If the response to Question VII.H.5 is "YES," go to Section VIII.	□YES □NO		

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Form	Form OP-REQ1: Page 31					
VII.		le 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants ntinued)				
	H.	Subp	oart FF - National Emission Standard for Benzene Waste Operations (continue	ed)		
		Appli	icability (continued)			
		6.	The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.	YES	□NO	
		7.	The application area has waste streams with flow-weighted annual average water content of 10% or greater.	YES	□NO	
		Wast	e Stream Exemptions			
		8.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).	YES	□NO	
		9.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr.	□YES	□NO	
		10.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr.	☐YES	□NO	
		11.	The application area transfers waste off-site for treatment by another facility.	□YES	□NO	
		12.	The application area is complying with 40 CFR § 61.342(d).	□YES	□NO	
		13.	The application area is complying with 40 CFR § 61.342(e). If the response to Question VII.H.13 is "NO," go to Question VII.H.15.	□YES	□NO	
		14.	The application area has facility waste with a flow weighted annual average water content of less than 10%.	☐YES	□NO	

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Form	Form OP-REQ1: Page 32				
VII.	Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)				
	н.	Subp	oart FF - National Emission Standard for Benzene Waste Operations (continue	ed)	
		Cont	ainer Requirements		
		15.	The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. If the response to Question VII.H.15 is "NO," go to Question VII.H.18.	□YES	□NO
		16.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. If the response to Question VII.H.16 is "YES," go to Question VII.H.18.	□YES	□NO
		17.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	YES	□NO
		Indiv	ridual Drain Systems		
		18.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. If the response to Question VII.H.18 is "NO," go to Question VII.H.25.	YES	□NO
		19.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. If the response to Question VII.H.19 is "YES," go to Question VII.H.25.	☐YES	□NO
		20.	The application area has individual drain systems complying with 40 CFR § 61.346(a). If the response to Question VII.H.20 is "NO," go to Question VII.H.22.	□YES	□NO
		21.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	□YES	□NO

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Form	Form OP-REQ1: Page 33					
VII.		40 Co inued	ode of Federal Regulations Part 61 - National Emission Standards for Hazardo)	us Air Pollutants		
	н.	Subpart FF - National Emission Standard for Benzene Waste Operations (continued)				
		Individual Drain Systems (continued)				
		22.	The application area has individual drain systems complying with 40 CFR § 61.346(b). If the response to Question VII.H.22 is "NO," go to Question VII.H.25.	□YES □NO		
		23.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	□YES □NO		
		24.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	□YES □NO		
	Remediation Activities					
		25.	Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	□YES □NO		
VIII.			ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories	us Air Pollutants		
	A.	Appl	icability			
•		1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63. See instructions for 40 CFR Part 63 subparts made applicable only by reference.	⊠YES □NO		
	В.	Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry				
		1.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). If the response to Question VIII.B.1 is "NO," go to Section VIII.D.	⊠YES □NO		

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Form OP-	REQ1:	Page 34			
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
В.	B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants fr Organic Chemical Manufacturing Industry (continued)				
	2.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii). If the response to Question VIII.B.2 is "NO," go to Section VIII.D.	⊠YES	□NO	
	3.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	⊠YES	□NO	
	4.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	□YES	⊠NO	
	5.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does <u>not</u> use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F. <i>If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.</i>	□YES	⊠NO	

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Form OP-I	Form OP-REQ1: Page 35				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
C.	Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater				
	Appl	icability			
	1.	The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F.	□YES	⊠NO	
		If the response to Question VIII.C.1 is "NO," go to Section VIII.D.			
	2.	The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148.	☐YES	□NO	
	3.	The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148. If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.	□YES	□NO	
	4.	The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping.	□YES	□NO	
	5.	The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere. If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.	□YES	□NO	
	Vapo	or Collection and Closed Vent Systems			
	6.	Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area.	□YES	□NO	
	7.	Bypass lines in the application area are secured in the closed position with a carseal or a lock-and-key type configuration.	□YES	□NO	

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Form	Form OP-REQ1: Page 36					
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	C.	Orga	Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)			
		Relo	ading or Cleaning of Railcars, Tank Trucks, or Barges			
		8.	The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank. If the response to Question VIII.C.8 is "NO," go to Question VIII.C.11.	□YES	□NO	
		9.	The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater.	□YES	□NO	
		10.	The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system.	□YES	□NO	
		Tran	sfer Racks			
		11.	The application area includes Group 1 transfer racks that load organic HAPs.	□YES	□NO	
		Proc	ess Wastewater Streams			
		12.	The application area includes process wastewater streams. If the response to Question VIII.C.9 is "NO," go to Question VIII.C.31.	□YES	□NO	
		13.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. If the response to Question VIII.C.10 is "NO," go to Question VIII.C.12.	□YES	□NO	
		14.	The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii).	☐YES	□NO	
		15.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. If the response to Question VIII.C.12 is "NO," go to Question VIII.C.14.	□YES	□NO	

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Form	Form OP-REQ1: Page 37				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
	(Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations and Wastewater (continued)			
	1	Proce	ess Wastewater Streams (continued)		
		16.	The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	□YES □NO	
		17.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.	□YES □NO	
		18.	The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	□YES □NO	
		19.	The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	□YES □NO	
		20.	The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.	□YES □NO	
	,	21.	The application area includes process wastewater streams, located at existing sources that are Group 2.	□YES □NO	
		22.	The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.	□YES □NO	
	,	23.	The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.	□YES □NO	

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
C.	Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
	Proc	ess Wastewater Streams (continued)	
	24.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.	□YES □NO
	25.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.</i>	□YES □NO
	26.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	□YES □NO
	27.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	□YES □NO
	28.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. If the responses to Questions VIII.C.24 - VIII.C.25 are both "NO," go to Question VIII.C.27.	□YES □NO
	29.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	□YES □NO
	30.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	□YES □NO

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Form OP-	Form OP-REQ1: Page 39			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
С.	C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)			
	Drain	ns		
	31.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.	□YES	□NO
	32.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES	□NO
	33.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	YES	□NO
	34.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). If the response to Question VIII.C.31 is "NO," go to Question VIII.C.36.	□YES	□NO
	35.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). If the response to Question VIII.C.32 is "NO," go to Question VIII.C.36.	☐YES	□NO
	36.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate.	□YES	□NO

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Form OP-REQ1: Page 40					
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
C.	Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)				
	Drain	ns (continued)			
	37.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.	□YES [NO	
	38.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute.	□YES [□NO	
	Gas	Streams			
	39.	The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.	□YES [□NO	
	40.	The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).	□YES [□NO	
D.	Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks				
	1.	The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.	□YES [⊠NO	

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VIII.	III. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
	E.	Subp	part O - Ethylene Oxide Emissions Standards for Sterilization Facilities		
		1.	The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials.	□YES	⊠NO
			If the response to Question VIII.E.1 is "NO," go to Section VIII.F.		
		2.	Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O.	YES	□NO
			If the response to Question VIII.E.2 is "NO," go to Section VIII.F.		
		3.	The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	□YES	□NO
		4.	The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	□YES	□NO
	F.	Subp	oart Q - National Emission Standards for Industrial Process Cooling Towers		
		1.	The application area includes industrial process cooling towers. If the response to Question VIII.F.1 is "NO," go to Section VIII.G.	□YES	⊠NO
		2.	Chromium-based water treatment chemicals have been used on or after September 8, 1994.	□YES	□NO
	G.	_	part R - National Emission Standards for Gasoline Distribution Facilities (Bulkninals and Pipeline Breakout Stations)	k Gasoline	e
		1.	The application area includes a bulk gasoline terminal.	□YES	\boxtimes NO
		2.	The application area includes a pipeline breakout station. If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.	□YES	⊠NO
		3.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station. If the response to Question VIII.G.3 is "YES," go to Question VIII.G.9.	□YES	□NO

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Form OP	Form OP-REQ1: Page 42			
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
G.	G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Terminals and Pipeline Breakout Stations) (continued)			
	4.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs. If the response to Question VIII.G.4 is "YES," go to Question VIII.G.9.	□YES □NO	
	5.	An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station. If the response to Question VIII.G.5 is "NO," go to Question VIII.G.9.	□YES □NO	
	6.	The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep). If the response to Question VIII.G.5 is "NO," go to Question VIII.G.9.	□YES □NO	
	7.	Emissions screening factor less than 0.5 (ET or EP < 0.5). If the response to Question VIII.G.6 is "YES," go to Section VIII.H.	□YES □NO	
	8.	Emissions screening factor greater than or equal to 0.5, but less than $1.0 (0.5 \le ET \text{ or } EP < 1.0)$. If the response to Question VIII.G.7 is "YES," go to Section VIII.H	□YES □NO	
	9.	Emissions screening factor greater than or equal to 1.0 (ET or EP \geq 1.0). If the response to Question VIII.G.8 is "YES," go to Question VIII.G.10.	□YES □NO	
	10.	The site at which the application area is located is a major source of HAP. If the response to Question VIII.G.9 is "NO," go to Section VIII.H	□YES □NO	
	11.	The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).	□YES □NO	

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	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
н.	Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry			aper
	1.	The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2.	□YES	⊠NO
		If the response to Question VIII.H.1 is "NO," go to Section VIII.I.		
	2.	The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3).	□YES	□NO
		If the response to Question VIII.H.2 is "NO," go to Section VIII.I.		
	3.	The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. If the response to Question VIII.H.3 is "NO," go to Section VIII.I.	□YES	□NO
	4.	The application area includes one or more kraft pulping systems that are existing sources.	□YES	□NO
	5.	The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	☐YES	□NO
	6.	The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24. If the response to Question VIII.H.6 is "NO," go to Section VIII.I.	□YES	□NO
	7.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	□YES	□NO
	8.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	□YES	□NO

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VIII.	TII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	I.	Subp	part T - National Emission Standards for Halogenated Solvent Cleaning			
		1.	The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent.	□YES	⊠NO	
		2.	The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride.	☐YES	⊠NO	
		3.	The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride.	□YES	⊠NO	
	J.	_	part U - National Emission Standards for Hazardous Air Pollutant Emissions: Resins	Group 1	Polymers	
		1.	The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units. If the response to Question VIII.J.1 is "NO," go to Section VIII.K.	□YES	⊠NO	
		2.	Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U. If the response to Question VIII.J.2 is "NO," go to Section VIII.K.	☐YES	□NO	
		3.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482.	□YES	□NO	
		4.	The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482.	□YES	□NO	

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Form	Form OP-REQ1: Page 45				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
J	J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group and Resins (continued)				
	5.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.	YES	□NO	
	6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.	YES	□NO	
	7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	□YES	□NO	
	8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES	□NO	
	9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.11.	□YES	□NO	
	10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	□YES	□NO	

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	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
J.	J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)				
	Cont	ainers			
	11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	□YES	□NO	
	Drain	ns			
	12.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.	□YES	□NO	
	13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	□YES	□NO	
	14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	□YES	□NO	
	15.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. If the response to Question VIII.J.15 is "NO," go to Section VIII.K.	☐YES	□NO	
	16.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12). If the response to Question VIII.J.16 is "NO," go to Section VIII.K.	YES	□NO	

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VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)						
	J.	_	Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)				
		Drai	ns (continued)				
		17.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate.	□YES	□NO		
		18.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES	□NO		
		19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute.	□YES	□NO		
	K.	Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production					
		1.	The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area. If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.	☐YES	□NO ⊠N/A		
		2.	The application area includes a BLR and/or WSR research and development facility.	☐YES	□NO		

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VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	L.	Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting				
		1.	The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter. If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M.	☐YES	□NO ⊠N/A	
		2.	The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources.	□YES	□NO	
	M.	Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations				
		1.	The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.	☐YES	⊠NO	
	N.	Subj	part CC - National Emission Standards for Hazardous Air Pollutants from Pet	roleum R	efineries	
		Appl	licability			
		1.	The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7). If the response to Question VIII.N.1 is "NO," go to Section VIII.O.	□YES	⊠NO	
		2.	All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7). <i>If the response to Question VIII.N.2 is "YES," go to Section VIII.O.</i>	☐YES	□NO	

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	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
N.	_	oart CC - National Emission Standards for Hazardous Air Pollutants from Pettinued)	roleum R	efineries
	Apple	icability (continued)		
	3.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). If the response to Question VIII.N.3 is "NO," go to Section VIII.O.	□YES	□NO
	4.	The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC. If the response to Question VIII.N.4 is "NO," go to Section VIII.O.	☐YES	□NO
	5.	The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	☐YES	□NO
	6.	The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	□YES	□NO
	7.	The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section. If the response to Question VIII.N.7 is "NO," go to Section VIII.O.	☐YES	□NO
	8.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	☐YES	□NO

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Form OP-	Form OP-REQ1: Page 50					
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
N.		Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)				
	Appl	icability (continued)				
	9.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii). If the response to Question VIII.N.9 is "NO," go to Section VIII.O.	YES	□NO		
	10.	The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992.	□YES	□NO		
	Containers, Drains, and other Appurtenances					
	11.	The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	YES	□NO		
	12.	The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	□YES	□NO		
0.	Subp	part DD - National Emission Standards for Off-site Waste and Recovery Opera	ations			
	1.	The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1). If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P	□YES	⊠NO □N/A		
	2.	Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.	□YES	□NO		
	3.	The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265.	□YES	□NO		

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Form	Form OP-REQ1: Page 51				
VIII.			ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Po	llutants
	0.	Subp	oart DD - National Emission Standards for Off-site Waste and Recovery Opera	ations (co	ntinued)
		4.	The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).	□YES	□NO
		5.	The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a "state" or "municipality."	□YES	□NO
		6.	The predominant activity in the application area is the treatment of wastewater received from off-site.	YES	□NO
		7.	The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).	□YES	□NO
		8.	The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61.	□YES	□NO
		9.	The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).	□YES	□NO
		10.	The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year. If the response to Question VIII.O.10 is "YES," go to Section VIII.P.	□YES	□NO

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Form OF	Form OP-REQ1: Page 52				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
О.	Subp	oart DD - National Emission Standards for Off-site Waste and Recovery Opera	tions (co	ntinued)	
	11.	The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater. If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.	□YES	□NO	
	12.	VOHAP concentration is determined by direct measurement.	☐YES	□NO	
	13.	VOHAP concentration is based on knowledge of the off-site material.	□YES	□NO	
	14.	The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system. If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.	□YES	□NO	
	15.	An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.	YES	□NO	
	16.	An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	_YES	□NO	
	17.	The application area includes containers that manage non-exempt off-site material.	YES	□NO	
	18.	The application area includes individual drain systems that manage non-exempt off-site materials.	YES	□NO	

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Form	Form OP-REQ1: Page 53				
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
	Р.	Subj	part $\mathbf{G}\mathbf{G}$ - National Emission Standards for Aerospace Manufacturing and Rev	vork Faci	lities
		1.	The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components. If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.	□YES	⊠NO □N/A
		2.	The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).	□YES	□NO
	Q.	_	oart HH - National Emission Standards for Hazardous Air Pollutants From Oi luction Facilities.	l and Nat	ural Gas
*		1.	The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer.	□YES	⊠NO
•		2.	The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user. For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R. For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.	□YES	⊠NO
•		3.	The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761. For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.	□YES	□NO
*		4.	The application area is located at a site that is a major source of HAP. If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.	□YES	□NO

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Form	Form OP-REQ1: Page 54					
VIII.	III. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	Q.		oart - HH - National Emission Standards for Hazardous Air Pollutants From Cuction Facilities (continued)	Oil and Na	atural Gas	
•		5.	The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft³) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day. For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z. For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.	□YES	□NO	
*		6.	The application area includes a triethylene glycol (TEG) dehydration unit. For SOP applications, f the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.	□YES	□NO	
•		7.	The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.	□YES	□NO	
•		8.	The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.	□YES	□NO	
*		9.	Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).	□YES	□NO	

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Form	OP-	REQ1	: Page 55				
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)						
	R.	Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)					
		1.	The application area includes shipbuilding or ship repair operations. If the response to Question VIII.R.1 is "NO," go to Section VIII.S.	□YES	⊠NO		
		2.	Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.	☐YES	□NO		
	S.	Subj	part JJ - National Emission Standards for Wood Furniture Manufacturing Op	erations			
		1.	The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations. If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.	YES	□NO ⊠N/A		
		2.	The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.	□YES	□NO		
	T.	Subj	part KK - National Emission Standards for the Printing and Publishing Indust	ry			
		1.	The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.	□YES	□NO ⊠N/A		
	U.	Subj	part PP - National Emission Standards for Containers				
		1.	The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions. If the response to Question VIII.U.1 is "NO," go to Section VIII.V.	☐YES	⊠NO		
		2.	The application area includes containers using Container Level 1 controls.	□YES	□NO		
		3.	The application area includes containers using Container Level 2 controls.	☐YES	□NO		

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Form	Form OP-REQ1: Page 56					
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	U.	Subp	part PP - National Emission Standards for Containers (continued)			
		4.	The application area includes containers using Container Level 3 controls.	□YES	□NO	
	v.	Subp	part RR - National Emission Standards for Individual Drain Systems			
		1.	The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.	□YES	⊠NO	
	W.		oart YY - National Emission Standards for Hazardous Air Pollutants for Sourceric Maximum Achievable Control Technology Standards	ce Catego	ries -	
		1.	The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.	□YES	⊠NO	
		2.	The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process. If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.	YES	⊠NO	
		3.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).	□YES	□NO	
		4.	The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).	☐YES	□NO	
		5.	All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.	□YES	□NO	
		6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.	□YES	□NO	

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Form OP-	REQ1:	Page 57			
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
W.	W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Sourc Generic Maximum Achievable Control Technology Standards (continued)				
	7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	□YES	□NO	
	8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	□YES	□NO	
	9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.	☐YES	□NO	
	10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	□YES	□NO	
	11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	□YES	□NO	
	12.	The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.	□YES	□NO	
	13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.	☐YES	□NO	
	14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	□YES	□NO	

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For SOP applications, answer ALL questions unless otherwise directed. For GOP applications, answer ONLY these questions unless otherwise directed.

Form	Form OP-REQ1: Page 58				
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
	W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)				
		15.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit. If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.	□YES	□NO
		16.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3). <i>If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.</i>	□YES	□NO
		17.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.	□YES	□NO
		18.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.	□YES	□NO

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Form	Form OP-REQ1: Page 59				
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
	W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)				
		19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.	□YES	□NO
		20.	The application area includes an ethylene production process unit.	□YES	⊠NO □N/A
		21.	The application area includes waste streams generated from an ethylene production process unit. If the responses to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.	□YES	⊠NO □N/A
		22.	The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1). If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.	□YES	□NO
		23.	Waste stream(s) are transferred off-site for treatment. If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.	□YES	□NO
		24.	The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.	□YES	□NO

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Form OP-1	Form OP-REQ1: Page 60				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
W.	V. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)				
	25.	The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).	□YES	□NO	
	26.	The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b). If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.	YES	□NO	
	27.	The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control. If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.	YES	□NO	
	28.	The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s). If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.	□YES	□NO	
	29.	The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	☐YES	□NO	
	30.	The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.	☐YES	□NO	
	31.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	YES	□NO	

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Form Ol	P-REQ1:	Page 61			
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
W.	_	Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)			
	32.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. If the response to Question VIII.W.32 is required, go to Question VIII.W.43.	□YES [□NO	
	33.	The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.	□YES [□NO	
	34.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.	□YES [NO	
	35.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	□YES [□NO	
	36.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream. If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.	□YES [NO	
	37.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.	□YES [□NO	

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Form OP-I	Form OP-REQ1: Page 62			
		de of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Pollutants	
W.		art YY - National Emission Standards for Hazardous Air Pollutants for Sourceric Maximum Achievable Control Technology Standards (continued)	ce Categories -	
	38.	The application area has individual drain systems complying with 40 CFR § 61.346(a). If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.	□YES □NO	
	39.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	□YES □NO	
	40.	The application area has individual drain systems complying with 40 CFR § 61.346(b). If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.	□YES □NO	
	41.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	□YES □NO	
	42.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	□YES □NO	
	43.	The application area has at least one waste stream that contains benzene. If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.	□YES □NO	
	44.	The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.	□YES □NO	
	45.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.	□YES □NO	

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Form	Form OP-REQ1: Page 63				
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
	W.	Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)			
		46.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	YES	□NO
		47.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene. If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.	☐YES	□NO
		48.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.	☐YES	□NO
		49.	The application area has individual drain systems complying with 40 CFR § 61.346(a). If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.	YES	□NO
		50.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES	□NO
		51.	The application area has individual drain systems complying with 40 CFR § 61.346(b). If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.	YES	□NO
		52.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES	□NO

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		ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Pollutants
W.		oart YY - National Emission Standards for Hazardous Air Pollutants for Sourceric Maximum Achievable Control Technology Standards (continued)	ce Categories -
	53.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	□YES □NO
	54.	The application area contains a cyanide chemicals manufacturing process. If the response to Question VIII.W.54 is "NO," go to Section VIII.X.	□YES ⊠NO
	55.	The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	□YES □NO
X.	_	oart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions mers and Resins	s: Group IV
	1.	The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ. If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.	□YES ⊠NO
	2.	The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units. If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.	□YES □NO
	3.	All process wastewater streams generated or managed in the application area are from sources producing polystyrene. If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.	□YES □NO
	4.	All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.	□YES □NO

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Form OP-REQ1: Page 65				
		ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Po	llutants
Х.	Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)			
	5.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.	□YES	□NO
	6.	The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	YES	□NO
	7.	The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	□YES	□NO
	8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.	☐YES	□NO
	9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.	□YES	□NO
	10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES	□NO
	11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	□YES	□NO
	12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. If the responses to Questions VIII.X.11 - VIII.X.12 are both "NO," go to Question VIII.X.14.	□YES	□NO

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Form OP-I	REQ1:	Page 66		
		ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Po	llutants
X.	Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)			
	13.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	□YES	□NO
	Cont	ainers		
	14.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	□YES	□NO
	Drains			
	15.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.	□YES	□NO
	16.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES	□NO
	17.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	YES	□NO
	18.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an thermoplastic product process unit. If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.	_YES	□NO

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Form OP-	Form OP-REQ1: Page 67				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
Х.	Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)				
	Drain	ns (continued)			
	19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12). <i>If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.</i>	☐YES	□NO	
	20.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate.	□YES	□NO	
	21.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute.	□YES	□NO	
	22.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute	□YES	□NO	

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Form	Form OP-REQ1: Page 68					
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	Υ.	7. Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.				
		1.	The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	□YES	⊠NO	
	Z.	_	part AAAA - National Emission Standards for Hazardous Air Pollutants for M te (MSW) Landfills.	(unicipal S	Solid	
*		1.	The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.	□YES	⊠NO	
	AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Mis Organic Chemical Production and Processes (MON)		scellaneou	us		
		1.	The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).	⊠YES	□NO	
		2.	The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	⊠YES	□NO	
		3.	The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to	⊠YES	□NO	
			Section VIII.BB.			
		4.	The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF. If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.	YES	⊠NO	
			If the response to Question vIII.AA.7 is NO, go to section vIII.BB.			

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Form OP-REQ1: Page 69					
		ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Po	llutants	
AA.	AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)				
	5.	The application area includes process wastewater streams. If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.18.	□YES	□NO	
	6.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	□YES	□NO	
	7.	The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	☐YES	□NO	
	8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.AA.8 is "YES," go to Section VIII.BB.	□YES	□NO	
	9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.	□YES	□NO	
	10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	YES	□NO	
	11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	□YES	□NO	
	12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. If the responses to Questions VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.	☐YES	□NO	

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Form OP-REQ1: Page 70				
		ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	ous Air Po	ollutants
AA.	AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Misc Organic Chemical Production and Processes (MON) (continued)			
	13.	Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.	YES	□NO
	14.	The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.	□YES	□NO
	15.	Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite. If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.	□YES	□NO
	16.	The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.	YES	□NO
	17.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	□YES	□NO
	18.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES	□NO
	19.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.	☐YES	□NO
	20.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	□YES	□NO

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Form (Form OP-REQ1: Page 71					
	II. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
A	AA.	scellaneo	us			
		21.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES	□NO	
		22.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.	□YES	□NO	
		23.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.	□YES	□NO	
		24.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.	□YES	□NO	
		25.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.	□YES	□NO	
		26.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	□YES	□NO	

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Form	Form OP-REQ1: Page 72						
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)						
	AA.		Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)				
	BB.	Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.					
	1. The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.						
	CC.	Subj	part GGGGG - National Emission Standards for Hazardous Air Pollutants: Si	te Remed	iation		
		1.	The application area includes a facility at which a site remediation is conducted. <i>If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.</i>	⊠YES	□NO		
		2.	The application area is located at a site that is a major source of HAP. If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.	⊠YES	□NO		
	3.	All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6). If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.	□YES	⊠NO			
		4.	Prior to beginning site remediation activities it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr. If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.	□YES	⊠NO		
		5.	The site remediation will be completed within 30 consecutive calendar days.	□YES	⊠NO		
		6.	No site remediation will exceed 30 consecutive calendar days. If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.	□YES	⊠NO		
7. Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG a transferred from the application area to an off-site facility.		Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.	□YES	⊠NO			
		8.	All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.	YES	⊠NO		

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Form	Form OP-REQ1: Page 73					
VIII.	7III. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)					
	CC.	. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)				
		9.	The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG. If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.	□YES ⊠NO		
		10.	The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	□YES □NO		
		11.	The application area includes containers with a capacity greater than 0.46 m³ that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).	□YES □NO		
		12.	The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).	□YES □NO		
		13.	The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	□YES □NO		
		14.	The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	□YES ⊠NO		
	DD.	_	oart YYYYY - National Emission Standards for Hazardous Air Pollutants for Aric Arc Furnace Steelmaking Facilities	Area/Sources:		
		1.	The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions. If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.	□YES ⊠NO		
		2.	The EAF steelmaking facility is a research and development facility. If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.	□YES □NO		
		3.	Metallic scrap is utilized in the EAF.	□YES □NO		
		4.	Scrap containing motor vehicle scrap is utilized in the EAF.	YES NO		
		5.	Scrap not containing motor vehicle scrap is utilized in the EAF.	□YES □NO		

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Form (Form OP-REQ1: Page 74				
	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)				
E	EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Categ Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities				
		1.	The application area is located at a site that is an area source of HAPs. If the answer to Question EE.1 is "NO," go to Section VIII.FF.	☐YES	⊠NO
		2.	The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.	□YES	□NO
		3.	The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.	□YES	□NO
		4.	The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB. If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.	□YES	□NO
		5.	The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).	☐YES	□NO
		6.	The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC. If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.	☐YES	□NO
		7.	The bulk gasoline terminal has throughput of less than 250,000 gallons per day. If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.	□YES	□NO
		8.	The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	□YES	□NO
		9.	The bulk gasoline terminal loads gasoline into railcar cargo tanks. If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.	□YES	□NO
		10.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	□YES	□NO

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Forn	Form OP-REQ1: Page 75						
VIII.	VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)						
	EE.		Subpart BBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)				
		11.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit.	□YES □NO			
	FF.		oart CCCCCC - National Emission Standards for Hazardous Air Pollutants fo line Dispensing Facilities	r Source Category:			
*		1.	The application area is located at a site that is an area source of hazardous air pollutants. If the answer to Question VIII.FF.1 is "NO," go to Section VIII.GG.	□YES ⊠NO			
*		2.	The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132. If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.	□YES □NO			
•		3.	The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.	□YES □NO			
*		4.	The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.	□YES □NO			
	GG.	Rece	ntly Promulgated 40 CFR Part 63 Subparts				
*		1.	The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form. If the response to Question VIII.GG.1 is "NO," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions.	⊠YES □NO			
♦		2.	Provide the Subpart designation (i.e. Subpart EEE) in the space provided below.				
			SUBPART YYYY				

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Forn	Form OP-REQ1: Page 76					
IX.	Title	Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions				
	A.	Appl	licability			
*		1.	The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.	□YES	⊠NO	
Χ.	Title	40 Co	ode of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratosphe	ric Ozon	e	
	A.	Subp	part A - Production and Consumption Controls			
•		1.	The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.	□YES	⊠NO □N/A	
	В.	Subp	oart B - Servicing of Motor Vehicle Air Conditioners			
*		1.	Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.	□YES	⊠NO	
	C.	_	oart C - Ban on Nonessential Products Containing Class I Substances and Ban lucts Containing or Manufactured with Class II Substances	on Nones	sential	
*		1.	The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.	□YES	⊠NO □N/A	
	D.	Subp	oart D - Federal Procurement			
•		1.	The application area is owned/operated by a department, agency, or instrumentality of the United States.	□YES	⊠NO □N/A	
	E.	Subp	part E - The Labeling of Products Using Ozone Depleting Substances			
*		1.	The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.	□YES	⊠NO □N/A	
•		2.	The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	□YES	⊠NO □N/A	
*		3.	The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.	☐YES	⊠NO □N/A	

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Form	Form OP-REQ1: Page 77						
Х.		Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)					
	F.	Subp	part F - Recycling and Emissions Reduction				
*		1.	Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.	⊠YES	□NO		
*		2.	Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.	□YES	⊠NO □N/A		
*		3.	The application area manufactures appliances or refrigerant recycling and recovery equipment.	□YES	⊠NO □N/A		
	G.	Subp	oart G - Significant New Alternatives Policy Program				
*		1.	The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound. If the response to Question X.G.1 is "NO," go to Section X.H.	□YES	⊠NO □N/A		
•		2.	All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).	□YES	□NO □N/A		
	H.	Subp	oart H -Halon Emissions Reduction				
•		1.	Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.	□YES	⊠NO □N/A		
•		2.	Disposal of halons or manufacturing of halon blends is conducted in the application area.	□YES	⊠NO □N/A		
XI.	Misc	ellane	ous				
	A.	Requ	nirements Reference Tables (RRT) and Flowcharts				
		1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.	⊠YES	□NO		

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For SOP applications, answer ALL questions unless otherwise directed.

Forn	Form OP-REQ1: Page 78					
XI.	Miscellaneous (continued)					
	В.	3. Forms				
*		1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form. If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.	YES	⊠NO □N/A	
*		2.	Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Sul Division designation for the State regulation(s) in the space provided below.	bchapter,	and	
	C.	Emis	ssion Limitation Certifications			
•		1.	The application area includes units for which federally enforceable emission limitations have been established by certification.	□YES	⊠NO	
	D.		rnative Means of Control, Alternative Emission Limitation or Standard, or Equirements	uivalent		
		1.	The application area is located at a site that is subject to a site specific requirement of the state implementation plan (SIP).	□YES	⊠NO	
		2.	The application area includes units located at the site that are subject to a site specific requirement of the SIP.	□YES	⊠NO	
		3.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator. If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.	□YES	⊠NO	
		4.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director. If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.	□YES	⊠NO	

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Forn	Form OP-REQ1: Page 79					
XI.	Misc	cellaneous (continued)				
	E.	Title IV - Acid Rain Program				
		1.	The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program.	YES	⊠NO	
		2.	The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.	□YES	⊠NO	
		3.	The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.	□YES	⊠NO	
	F.		FR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_X (up 2 Trading Program	Ozone Sea	son	
		1.	The application area includes emission units subject to the requirements of the CSAPR NO _X Ozone Season Group 2 Trading Program. If the response to Question XI.F.1 is "NO," go to Question XI.F.7.	□YES	⊠NO	
		2.	The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _X and heat input.	□YES	□NO	
		3.	The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _X , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	□YES	□NO	
		4.	The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO _X , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	☐YES	□NO	
		5.	The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO _X and heat input.	☐YES	□NO	
		6.	The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO _X and heat input.	□YES	□NO	
		7.	The application area includes emission units that qualify for the CSAPR NO _X Ozone Season Group 2 retired unit exemption.	□YES	⊠NO	

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For SOP applications, answer ALL questions unless otherwise directed.

Forn	Form OP-REQ1: Page 80				
XI.	. Miscellaneous (continued)				
	G.	G. 40 CFR Part 97, Subpart FFFFF - Texas SO ₂ Trading Program			
		1.	The application area includes emission units complying with the requirements of the Texas SO ₂ Trading Program. If the response to Question XI.G.1 is "NO," go to Question XI.G.6.	□YES	⊠NO
		2.	The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO ₂ and 40 CFR Part 75, Subpart H for heat input.	☐YES	□NO
		3.	The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO ₂ and heat input.	☐YES	□NO
		4.	The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO ₂ and heat input.	☐YES	□NO
		5.	The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO ₂ and heat input.	☐YES	□NO
		6.	The application area includes emission units that qualify for the Texas SO ₂ Trading Program retired unit exemption.	□YES	⊠NO
	Н.	Pern	nit Shield (SOP Applicants Only)		
		1.	A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.	□YES	⊠NO

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For SOP applications, answer ALL questions unless otherwise directed.

Forn	Form OP-REQ1: Page 81					
XI.	Miso	cellane	ous (continued)			
	I.	GOF	Type (Complete this section for GOP applications only)			
*		1.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.	□YES	□NO	
•		2.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.	□YES	□NO	
•		3.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.	□YES	□NO	
•		4.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County.	□YES	□NO	
*		5.	The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.	□YES	□NO	
	J.	Title	30 TAC Chapter 101, Subchapter H			
*		1.	The application area is located in a nonattainment area. If the response to Question XI.J.1 is "NO," go to question XI.J.3.	□YES	⊠NO	
*		2.	The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	□YES	□NO □N/A	
*		3.	The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	□YES	⊠NO □N/A	

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For SOP applications, answer ALL questions unless otherwise directed.

Form	OP-I	REQ1:	Page 82		
XI.	Misc	ellane	ous (continued)		
	J.	Title	30 TAC Chapter 101, Subchapter H (continued)		
*		4.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO _X .	YES	⊠NO
*		5.	The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	□YES	⊠NO
*		6.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly-reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.	□YES	⊠NO
•		7.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.	☐YES	⊠NO
	K.	Perio	odic Monitoring		
*		1.	The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.	∑YES	□NO
*		2.	The permit currently contains at least one periodic monitoring requirement. If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.	⊠YES	□NO
*		3.	All periodic monitoring requirements are being removed from the permit with this application.	□YES	⊠NO
	L.	Com	pliance Assurance Monitoring		
*		1.	The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source. If the response to Question XI.L.1 is "NO," go to Section XI.M.	⊠YES	□NO

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For SOP applications, answer ALL questions unless otherwise directed.

Forn	Form OP-REQ1: Page 83					
XI.	Miso	ellane	eous (continued)			
	L.	Com	pliance Assurance Monitoring (continued)			
*		2.	The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. If the response to Question XI.L.2 is "NO," go to Section XI.M.	□YES ⊠NO		
*		3.	The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	□YES □NO		
*		4.	The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application. If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.	□YES □NO		
		5.	The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.	□YES □NO		
		6.	Provide the unit identification numbers for the units for which the applicant is sub- implementation plan and schedule in the space below.	omitting a CAM		
*		7.	At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).	□YES □NO		
*		8.	All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2). If the response to Question XI.L.8 is "YES," go to Section XI.M.	□YES □NO		
•		9.	The CAM proposal as described by question XI.L.3 or XI.L.4 addresses particulate matter or opacity.	□YES □NO		
♦		10.	The CAM proposal as described by question XI.L.3 or XI.L.4 addresses VOC.	□YES □NO		
♦		11.	The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	□YES □NO		

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For SOP applications, answer ALL questions unless otherwise directed.

Forn	Form OP-REQ1: Page 84					
XI.	Misc	ellane	ous (continued)			
	M.	M. Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Comp				
•		1.	The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004. If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.	YES	⊠NO	
*		2.	All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	□YES	□NO	
XII.	New	Sourc	e Review (NSR) Authorizations			
	A.	Wast	e Permits with Air Addendum			
•		1.	The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum. If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.	□YES	⊠NO	
	B.	Air (Quality Standard Permits			
•		1.	The application area includes at least one Air Quality Standard Permit NSR authorization.	YES	⊠NO	
			If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H, and answer XII.B.2 - B.16 as appropriate.			
*		2.	The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	□YES	□NO	
•		3.	The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	□YES	□NO	
*		4.	The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.	☐YES	□NO	
•		5.	The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.	□YES	□NO	
•		6.	The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	□YES	□NO	

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For SOP applications, answer ALL questions unless otherwise directed.

Form OP-REQ1: Page 85								
XII.	XII. New Source Review (NSR) Authorizations (continued)							
	B. Air Quality Standard Permits (continued)							
*		7.	The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.	□YES	□NO			
		8.	The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	□YES	□NO			
♦		9.	The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	□YES	□NO			
♦		10.	The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	□YES	□NO			
*		11.	The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.	□YES	□NO			
*		12.	The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. If the response to XII.B.12 is "NO," go to Question XII.B.15.	□YES	□NO			
•		13.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	□YES	□NO			
*		14.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	□YES	□NO			
♦		15.	The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	□YES	□NO			
♦		16.	The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	□YES	□NO			
	C.	Flex						
		1.	The application area includes at least one Flexible Permit NSR authorization.	□YES	\boxtimes NO			
	D.	Multiple Plant Permits						
		1.	The application area includes at least one Multi-Plant Permit NSR authorization.	□YES	⊠NO			

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◆ For GOP applications, answer ONLY these questions unless otherwise directed.							
Form OP-REQ1: Page 86							
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)							
E. PSD Permits and	E. PSD Permits and PSD Major Pollutants						
PSD Permit No.: PSD-TX-921		Issuance Date: 7/24/2019		Pollutant(s): CO, NO _X , SO ₂ , VOC and PM ₁₀			
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 th Technical Forms heading at:		-	-				
F. Nonattainment ((NA) Per	rmits and NA Major	Pollutar	nts			
NA Permit No.:		Issuance Date:		Pollutant(s):			
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 Authorizat	ions wit	h FCAA § 112(g) Req	uireme	nts			
NSR Permit No.:	Issuance	e Date:	NSR Permit No.:		Issuance Date:		
NSR Permit No.: Issuance Date: N		NSR Permit No.:		Issuance Date:			
NSR Permit No.:	ee Date: NSR Pe		ermit No.:	Issuance Date:			
NSR Permit No.:	Issuance	e 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.: 9609A	Issuance	e Date: 9/1/2015	Authori	zation No.:	Issuance Date:		
Authorization No.: 38481 Issuanc		re Date: 7/24/2019 Authori		zation No.:	Issuance Date:		
Authorization No.:	Issuance	e Date: Authori		zation No.:	Issuance Date:		
Authorization No.:	e Date:	Authori	zation No.:	Issuance Date:			

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For SOP applications, answer ALL questions unless otherwise directed.

	•			
Form OP-REQ1: Page 87				
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)				
♦ I. Permits by Rule (30 TAC Chapter 106) for the Application Area				
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.				
PBR No.: 106.261	Version No./Date: 9/4/2000			
PBR No.: 106.261	Version No./Date: 11/1/2003			
PBR No.: 106.263	Version No./Date: 11/1/2001			
PBR No.: 106.371	Version No./Date: 3/14/1997			
PBR No.: 106.472	Version No./Date: 9/4/2000			
PBR No.: 106.511	Version No./Date: 9/4/2000			
PBR No.: 61	Version No./Date: 9/12/1989			
PBR No.: 111	Version No./Date: 9/12/1989			
PBR No.: 106.261	Version No./Date: 7/20/1992			
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:			

SECTION 4 - Compliance Certification Forms

This Section contains the following forms:

OP-ACPS Application Compliance Plan and Schedule



Texas Commission on Environmental Quality Form OP-ACPS Application Compliance Plan and Schedule

Date: 11/06/2019	Regulated Entity No.: RN10218	1526	Permit No.: 02027
Company Name: Union Carbide Corporation		Area Na	me: Energy Systems

- Part 1 of this form must be submitted with all initial FOP applications and renewal applications.
- The Responsible Official must use Form OP-CRO1 (Certification by Responsible Official) to certify information contained in this form in accordance with 30 TAC § 122.132(d)(8).

Part 1

A.	Compliance Plan — Future Activity Committal Statement			
The <i>Responsible Official</i> commits, utilizing reasonable effort, to the following: As the responsible official it is my intent that all emission units shall continue to be in compliance with all applicable requirements they are currently in compliance with, and all emission units shall be in compliance by the compliance dates with any applicable requirements that become effective during the permit term.				
В.	3. Compliance Certification - Statement for Units in Compliance* (Indicate response by entering an "X" in the appropriate column)			
1.	With the exception of those emission units listed in the Compliance Schedule section of this form (Part 2, below), and based, at minimum, on the compliance method specified in the associated applicable requirements, are all emission units addressed in this application in compliance with all their respective applicable requirements as identified in this application?	⊠ YES □ NO		
2.	Are there any non-compliance situations addressed in the Compliance Schedule Section of this form (Part 2)?	☐ YES ⊠ NO		
3.	If the response to Item B.2, above, is "Yes," indicate the total number of Part 2 attachments included in this submittal. (For reference only)	NA		
*	For Site Operating Permits (SOPs), the complete application should be consulted for applicable requirements and their corresponding emission units when assessing compliance status. For General Operating Permits (GOPs), the application documentation, particularly Form OP-REQ1 should be consulted as well as the requirements contained in the appropriate General Permits portion of 30 TAC Chapter 122.			
	Compliance should be assessed based, at a minimum, on the required monitoring, testing, record keeping, and/or reporting requirements, as appropriate, associated with the applicable requirement in question.			

Texas Commission on Environmental Quality Form OP-ACPS Application Compliance Plan and Schedule

Date: 11/06/2019	Regulated Entity No.: RN10218	1526	Permit No.: 02027
Company Name: Union C	arbide Corporation	Area Na	me: Energy Systems

Part 2				
Compliance Schedule				
each separate non-compliance	situation. (See form ins	truction for de	tails.) If there are no non-compliance	
Specific Non-Compliance S	ituation			
c/Group/Process ID No.(s):				
Index No.:				
utant:				
licable Requirement				
Citation			Text Description	
Compliance Status Assessr	nent Method and Rec	ords Location		
Citation	Text Descrip	otion	Location of Records/Documentation	
Non-compliance Situation	Description			
Non-compliance Situation	Description			
Non-compliance Situation Corrective Action Plan Des	-			
·	-			
·	scription	orrective Acti	on Plan	
Corrective Action Plan Des	scription	orrective Acti	on Plan	
Corrective Action Plan Des	scription	orrective Acti	on Plan	
Corrective Action Plan Des	scription	orrective Acti	on Plan	
Corrective Action Plan Des	scription	orrective Acti	on Plan	
	Specific Non-Compliance St/Group/Process ID No.(s): Index No.: utant: blicable Requirement Citation Compliance Status Assessi	each separate non-compliance situation. (See form instations ongoing at time of application, then this section Specific Non-Compliance Situation t/Group/Process ID No.(s): Index No.: utant: Dicable Requirement Citation Compliance Status Assessment Method and Recompliance Status Assessment Method Assessment	t/Group/Process ID No.(s): Index No.: utant: plicable Requirement	

Texas Commission on Environmental Quality Form OP-ACPS Application Compliance Plan and Schedule

Date: 11/06/2019	Regulated Entity No.: RN1	Permit No.: 02027		
Company Name: Union (Carbide Corporation	Area Na	nme: Energy Systems	
Part 2 (continued)				
6. Previously Submit	ted Compliance Plan(s)			
Туре	e of Action	Date Submitted		
7. Progress Report S	ubmission Schedule			

SECTION 4 - Major NSR Summary Table

This Section contains Major NSR	Summary Table	

Permit Numbers: 38481, PSD-TX-921					Issuance Date: 07/24/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission	Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond./Appl. Info.	Spec. Cond./Appl. Info.	Spec. Cond./Appl. Info.
1180	Cogeneration	NO _x	17.40	-	13, 14, 16	13, 14, 16, 18, 19	13, 14, 20, 21, 22
	Stack (Turbine Only) GE Model	CO (4)	29.40	-	13, 14, 16	13, 14, 16, 18, 19	13, 14, 20, 21, 22
	PG6561(B)	PM ₁₀ (4)	5.00	-	9, 13, 16	13, 16, 18, 19	13
		SO ₂	14.88	-	5, 10, 13, 16, 17	10, 13, 16, 17, 18, 19	10, 13, 21
		VOC	2.12	-	13, 16	13, 16, 18, 19	13
1180	Cogeneration	NOx	41.26	165.28	10, 13, 14, 16	10, 13, 14, 16, 18, 19	10, 13, 14, 20, 21, 22
	Stack (Combined Turbine and	CO (4)	53.10	211.85	13, 14, 16	13, 14, 16, 18, 19	13, 14, 20, 21, 22
	HRSGU)	PM ₁₀ (4)	8.02	34.13	9, 10, 13, 16	10, 13, 16, 18, 19	10, 13
		SO ₂	23.43	9.31	5, 10, 13, 16, 17	10, 13, 16, 17, 18, 19	10, 13, 21
		VOC	3.34	13.29	13, 16	13, 16, 18, 19	13

Permit Numbers:38481, PSD-TX-921					Issuance Date:07/24/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond./Appl. Info.	Spec. Cond./Appl. Info.	Spec. Cond./Appl. Info.
1180	Cogeneration Stack	NO _x	76.12	0.91	10, 13, 14, 16	10, 13, 14, 16, 18, 19	10, 13, 14, 20, 21, 22
hrs/year	(Combined Turbine	CO (4)	53.12	0.63	13, 14, 16	13, 14, 16, 18, 19	13, 14, 20, 21, 22
		PM ₁₀ (4)	8.02	0.096	9, 10, 13, 16	10, 13, 16, 18, 19	10, 13
	and fixsg)	SO ₂	24.62	0.29	5, 10, 13, 16, 17	10, 13, 16, 17, 18, 19	10, 13, 21
		VOC	3.51	0.042	13, 16	13, 16, 18, 19	13
1181	Cogeneration Fugitives	VOC (6)	0.01	0.02			
1182	Turbine Oil Vent	VOC (6)	0.25	1.00			

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) NO_x total oxiders of nitrogen
 - CO carbon monoxide

PM₁₀ – particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

SO₂ – sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1(4)

- (4) These emissions are permitted under PSD and State.
- (5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year

Process Description:

The following was documented in the previous technical review summary document. Please review it and update if required. If you have a new version, you can simply paste it below. (You don't need to use "track changes.")

The overall processes involved in this application area are Electricity Generation, Steam Generation, and the Deionized Water System.

Electricity Generation:

Electrical power generation operations include three cogeneration trains. Each of the cogeneration trains includes a Gas Turbine Generator (GTG) and a Heat Recovery Steam Generator (HRSG).

The GTGs burn natural gas as a primary fuel but are capable of firing No.2 Fuel Oil as an alternate fuel. Fuel oil is only fired in the GTGs during an emergency in the case of natural gas supply problems. The natural gas is pipeline-quality sweet gas and the fuel oil is first run refinery distillate which does not include waste oils or solvents. Exhaust gas from the GTGs are routed to the HRSGs which are capable of operating continuously under normal conditions.

Steam injection systems reduce the NOx emission rate from GTGs ESYS6B and ESYS8B. Low NOx burners are installed on GTG 1180. When firing fuel oil, SO2 emissions are controlled by limiting the fuel oil sulfur content through monitoring of incoming shipments.

Steam Generation:

Energy Systems include three Heat Recovery Steam Generators (HRSGs) which produce steam. Steam produced is primarily consumed by the various manufacturing units at the Seadrift Facility. The HRSGs produce steam by boiling deionized water with heat from the GTG exhaust gases plus additional heat from firing duct burners. The duct burners are fired primarily with sweet natural gas supplied by pipeline in addition to process gas from the HP2 unit which is located at the facility. The duct burners are fired intermittently as necessary to meet steam demand. Steam produced in excess of demand is diverted to steam turbines to generate electricity for use within the facility.

Deionized Water:

The Deionized Water System uses physical and chemical processes to deionize water drawn from UCC's freshwater pond. Most of the deionized water is used as boiler feed water. Any remaining demineralized water is supplied to manufacturing units within the Seadrift Facility. The operations associated with the Deionized Water System do not result in emissions and are not subject to Title V applicable requirements.

RO Details:

For this section, please use "track changes" or highlight the changes if you are making any changes.

MR WES HEINLEIN SEADRIFT OPERATIONS DIRECTOR UNION CARBIDE CORPORATION PO BOX 186 BLDG 1 PORT LAVACA TX 77979-0186

<u>Company Address, Site/Area Address, Public Notice Address, and Public Notice Contact Person and Phone Number</u>

For this section, please use "track changes" or highlight the changes if you are making any changes.

Union Carbide Corporation, PO Box 186 Bldg 1, Port Lavaca, TX 77979-0186

7501 State Highway 185 North in Seadrift, Calhoun County, Texas 77983

Calhoun County Library, 200 W Mahan St, Port Lavaca, Texas 77979-3327

Danish Khan, (979) 238-1037

Latitude, Longitude, Location (Map):

For this section, please use "track changes" or highlight the changes if you are making any changes.

Lat 28.515

Long -96.7717



Union Carbide Corporation A Subsidiary of The Dow Chemical Company Seadrift Operations P.O. Box 186 Port Lavaca, Texas 77979

April 27, 2020

Certified Mail 7018 1130 0001 3759 1193

Mr. Kal Murthy Air Permits Division (APD), MC-163 P.O. Box 13087 Austin, TX 78711-3087

Union Carbide Corporation CN601688781 Seadrift Facility RN102181526 Energy Systems, Title V Permit # 02027 Title V Permit 02027 Renewal Application TCEQ Project # 29740

Dear Mr. Murthy:

Enclosed please find a signed OP-CRO1 certifying the revision made to the Title V Permit application for operating permit 02027. These revisions were made during the time period of December 27, 2019 through April 22, 2020, and in keeping with the Title V Permitting requirements, changes to the application must also be certified by Responsible Official or Duly Authorized Representative.

Should there be any questions regarding this submittal, I can be contacted at (979) 238-1037 or via e-mail at MDKhan@dow.com.

Sincerely,

Danish Khan

Air Permit Manager

Dow Chemical Company

anen a Peppers

XC:

TCEQ Air Section Manager

TCEQ Air Program

6300 Ocean Dr, Unit 5839,

NRC Bldg, Ste 1200,

Houston, TX 77023-1486

Environmental Protection Agency

R6airpermitsTX@epa.gov

Air Permits Section (6PD-R)

Form OP-CRO1 Certification by Responsible Official Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Informati	on						
RN: RN102181526	CN: CN6016	88781	Acc	ount No.: CB-00	28-T		
Permit No.: 02027	•	Project N	Project No.: 29740				
Area Name: Energy System	S	Company	y Name: Union Ca	rbide Corporat	ion		
II. Certification Type (Pi	lease mark the appropriat	e box)					
☐ Responsible Official ☐ Duly Authorized Representative							
III. Submittal Type (Pleas	se mark the appropriate b	ox) (Only on	e response can be	accepted per form	n)		
SOP/TOP Initial Permit A	application Upo	late to Permi	t Application				
GOP Initial Permit Applic	cation Pen	mit Revision	, Renewal, or Reop	ening			
Other:							
IV. Certification of Truth							
	ke Barnes printed or typed) n and belief formed after the street date(s) below, are true period OR Specific Date(s)	reasonable in e, accurate, a for each cer	ertify that I am the aquiry, the statement and complete:	DAR (RO or L	DAR) on dated during		
Time Period: From12-2	27-2019	to	04-22-2020				
	Start Date		1	End Date			
Specific Dates:	Date 2	Date 3	Date 4	Date 5	Date 6		
Signature: Responsible Care	A Leader		Signature Da	ate: <u>4/24/202</u>	0		
riue. <u>Responsible Car</u>	c Leauel						

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

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

For GOP applications, answer ONLY these questions unless otherwise directed.

Form	OP-K	REQ1:	Page 73					
VIII.	TII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)							
	CC.	_	oart GGGGG - National Emission Standards for Hazardous Air Pollutants: Sit	te Remediation				
		9.	The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG.	⊠YES □NO				
			If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.					
		10.	The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	⊠YES □NO				
		11.	The application area includes containers with a capacity greater than 0.46 m³ that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).	⊠YES □NO				
		12.	The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).	⊠YES □NO				
		13.	The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	⊠YES □NO				
		14.	The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	□YES ⊠NO				
	DD.		oart YYYYY - National Emission Standards for Hazardous Air Pollutants for Aric Arc Furnace Steelmaking Facilities	Area/Sources:				
		1.	The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions. If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.	□YES ⊠NO				
		2.	The EAF steelmaking facility is a research and development facility. If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.	□YES □NO				
		3.	Metallic scrap is utilized in the EAF.	□YES □NO				
		4.	Scrap containing motor vehicle scrap is utilized in the EAF.	□YES □NO				
		5.	Scrap not containing motor vehicle scrap is utilized in the EAF.	□YES □NO				

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 6) Federal Operating Permit Program

Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Construction/ Modification Date	Heat Input Capacity	Subpart Da	Changes to Existing Affected Facility	Subpart Ea, Eb, or AAAA	Subpart KKKK	Subpart Cb or BBBB
587	60Db	86-86	100-250	NO	NO	NO	NO	NO
588	60Db	86-86	100-250	NO	NO	NO	NO	NO
1180	60Db	97-05CR	250+	NO	NO	NO	NO	NO

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 7) Federal Operating Permit Program

Table 3b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	Subpart D	Subpart J	Subpart E	ACF Option SO ₂	ACF Option PM	ACF Option NO _x
587	60Db	NG	BPW			NO	NO	OTHR	OTHR	OTHR
588	60Db	NG	BPW			NO	NO	OTHR	OTHR	OTHR
1180	60Db	NG				NO	NO	OTHR	OTHR	OTHR

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 8) Federal Operating Permit Program

Table 3c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	60.42b (k)(2) Low Sulfur Exemption	60.42b (k)(4) Alternative	Post- Combustion Control	60.43b(h)(2) Alternative	Electrical or Mechanical Output	Output Based Limit	Steam with Electricity	Electricity Only	60.49 Da(n) Alternative	60.49 Da(m) Alternative
587	60Db									NO	NO
588	60Db									NO	NO
1180	60Db					NO				NO	NO

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 9) Federal Operating Permit Program

Table 3d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Residual Oil Sampling	Monitoring Type PM	Monitoring Type Opacity	Monitoring Type NO _x	Monitoring Type SO ₂	Technology Type	Unit Type	Heat Release Rate	Heat Input Gas/Oil	Heat Input Wood	Fuel Heat Input
587	60Db		NONE	NONE	NONE	NONE	NONE	DCTBRN1				
588	60Db		NONE	NONE	NONE	NONE	NONE	DCTBRN1				
1180	60Db		NONE	NONE	NONE	NONE	NONE	DCTBRN1				

Texas Commission on Environmental Quality Boiler/Steam Generator/Steam Generating Unit Attributes Form OP-UA6 (Page 10) Federal Operating Permit Program

Table 3e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units

Date:	11/06/2019
Permit No.:	02027
Regulated Entity No.:	RN102181526

Unit ID No.	SOP Index No.	Alternate Emission Limit (AEL)	AEL ID. NO.	Facility Type	Monitoring Device	Common Fuel Source
587	60Db	NO				
588	60Db	NO				
1180	60Db	NO				

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

Date:	11/06/2019
Permit No.:	O2027
RN No.:	RN102181526

For SOP applications, answer ALL questions unless otherwise directed.

♦ For GOP applications, answer ONLY these questions unless otherwise directed.

Form	o OP-F	REQ1:	Page 73				
VIII.			ode of Federal Regulations Part 63 - National Emission Standards for Hazardo Categories (continued)	us Air Pollu	ıtants		
	CC.		oart GGGGG - National Emission Standards for Hazardous Air Pollutants: Sit tinued)	e Remediat	ion		
		9.	The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG. If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.	⊠YES □	NO		
		10.	The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	⊠YES □]NO		
		11.	The application area includes containers with a capacity greater than 0.46 m³ that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).	⊠YES □	NO		
		12. The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).					
		13.	The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	⊠YES □	NO		
		14.	The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	□YES ⊠	ŊO		
	DD.	_	oart YYYYY - National Emission Standards for Hazardous Air Pollutants for Arc Furnace Steelmaking Facilities	Area/Source	es:		
		1.	The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions. If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.	□YES ⊠	₫NO		
		2.	The EAF steelmaking facility is a research and development facility. If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.	_YES _	NO		
		3.	Metallic scrap is utilized in the EAF.	□YES □	□NO		
		4.	Scrap containing motor vehicle scrap is utilized in the EAF.	□YES □	NO		
		5.	Scrap not containing motor vehicle scrap is utilized in the EAF.	□YES □	NO		

Process Description:

The following was documented in the previous technical review summary document. Please review it and update if required. If you have a new version, you can simply paste it below. (You don't need to use "track changes.")

The overall processes involved in this application area are Electricity Generation, Steam Generation, and the Deionized Water System.

Electricity Generation:

Electrical power generation operations include three cogeneration trains. Each of the cogeneration trains includes a Gas Turbine Generator (GTG) and a Heat Recovery Steam Generator (HRSG).

The GTGs burn natural gas as a primary fuel but are capable of firing No.2 Fuel Oil as an alternate fuel. Fuel oil is only fired in the GTGs during an emergency in the case of natural gas supply problems. The natural gas is pipeline-quality sweet gas and the fuel oil is first run refinery distillate which does not include waste oils or solvents. Exhaust gas from the GTGs are routed to the HRSGs which are capable of operating continuously under normal conditions.

Steam injection systems reduce the NOx emission rate from GTGs ESYS6B and ESYS8B. Low NOx burners are installed on GTG 1180. When firing fuel oil, SO2 emissions are controlled by limiting the fuel oil sulfur content through monitoring of incoming shipments.

Steam Generation:

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Deionized Water:

The Deionized Water System uses physical and chemical processes to deionize water drawn from UCC's freshwater pond. Most of the deionized water is used as boiler feed water. Any remaining demineralized water is supplied to manufacturing units within the Seadrift Facility. The operations associated with the Deionized Water System do not result in emissions and are not subject to Title V applicable requirements.

RO Details:

For this section, please use "track changes" or highlight the changes if you are making any changes.

MR WES HEINLEIN SEADRIFT OPERATIONS DIRECTOR UNION CARBIDE CORPORATION PO BOX 186 BLDG 1 PORT LAVACA TX 77979-0186

<u>Company Address, Site/Area Address, Public Notice Address, and Public Notice Contact Person and Phone Number</u>

For this section, please use "track changes" or highlight the changes if you are making any changes.

Union Carbide Corporation, PO Box 186 Bldg 1, Port Lavaca, TX 77979-0186

7501 State Highway 185 North in Seadrift, Calhoun County, Texas 77983

Calhoun County Library, 200 W Mahan St, Port Lavaca, Texas 77979-3327

Danish Khan, (979) 238-1037

Latitude, Longitude, Location (Map):

For this section, please use "track changes" or highlight the changes if you are making any changes.

Lat 28.515

Long -96.7717

Permit Numbers: 3	8481 and PSDTX921		Issuance Date: 07/24/2019					
Emission Point		Air Contaminant	Emission	Rates (5)	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements	
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information	
		NOx	17.40	-				
		CO (4)	29.40	-				
1180	Cogeneration Stack (Turbine Only) GE Model PG6561(B)	PM ₁₀ (4)	5.00	-	5, 9, 10, 13, 14, 16,17	6, 10, 13, 14, 16, 17, 18, 19	10, 11, 13, 14, 20, 22	
	1 30301(B)	SO ₂	14.88	-				
		VOC	2.12	-				
	Cogeneration Stack (Combined Turbine and HRSGU)	NOx	41.26	165.28	5, 9, 10, 13, 14, 16, 17			
		CO (4)	53.10	211.85		7, 8, 10, 13, 14, 16, 17, 18, 19	10, 11, 13, 14, 20, 22	
1180		PM ₁₀ (4)	8.02	34.13				
		SO ₂	23.43	9.31				
		VOC	3.34	13.29				
		NO _x	76.12	0.91				
	Cogeneration Stack Peak	CO (4)	53.12	0.63		7, 8, 10, 13, 14, 16, 17, 18, 19		
1180	Loading for 24 hrs/year (Combined Turbine and	PM ₁₀ (4)	8.02	0.096	5, 9, 10, 13, 14, 16, 17		10, 11, 13, 14, 20, 22	
	HRSG)	SO ₂	24.62	0.29				
		VOC	3.51	0.042				
1181	Cogeneration Fugitives	VOC (6)	0.01	0.02				

Permit Numbers: 3	8481 and PSDTX921		Issuance Date: 07/24/2019				
Emission Point		Air Contaminant	Emission Rates (5)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
1182	Turbine Oil Vent	VOC (6)	0.25	1.00			

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- 3) NO_x total oxides of nitrogen
 - CO carbon monoxide
 - PM₁₀ particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - SO₂ sulfur dioxide
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1(4)
- (4) These emissions are permitted under PSD and State.
- (5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
 - Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year