From: <u>eNotice TCEQ</u>

To: Royce.west@senate.texas.gov; Yvonne.davis@house.texas.gov

Subject:TCEQ Notice - Permit Number O1333Date:Thursday, July 11, 2024 4:32:31 PMAttachments:TCEQ Notice - O1333 36830.pdf

This email is being sent to electronically transmit an official document issued by the Office of Air of the Texas Commission on Environmental Quality.

This email is being sent to you because either (a) you filed a document with the Office of the Chief Clerk that made you part of the official mailing list for the above referenced matter, or (b) notice to you is legally required. As authorized by Texas Water Code 5.128, this electronic transmittal is replacing the previous practice of hard copy distribution. Amendments to Texas Government Code 552.137 prompted a change to the agency's privacy policy regarding confidentiality of certain email addresses. The revised privacy policy can be viewed at http://www.tceq.state.tx.us/help/policies/electronic_info_policy.html.

Questions regarding this email may be submitted either by replying directly to this email or by calling Mr. Jesse Chacon, P.E. with the Air Permits Division at (512) 239-5759.

The attached document is provided in an Adobe Acrobat .pdf format. If you cannot display the attachment, you may need to visit the Adobe web site (http://get.adobe.com/reader) to download the free Adobe Acrobat Reader software.

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Jon Niermann, *Chairman*Bobby Janecka, *Commissioner*Catarina R. Gonzales, *Commissioner*Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 11, 2024

THE HONORABLE ROYCE WEST TEXAS SENATE PO BOX 12068 AUSTIN TX 78711-2068

Re: Accepted Federal Operating Permit Significant Revision Application

Project Number: 36830 Permit Number: O1333 Solar Turbines Incorporated Dallas Overhaul Center Desoto, Dallas County

Regulated Entity Number: RN100219963 Customer Reference Number: CN600127518

Dear Senator West:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) significant revision application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. 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 application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=96.850277,32.6275&level=13.

The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site. The FOP identifies and codifies air emission requirements (known as applicable requirements) that apply to the emission units at the site. The FOP does not authorize construction of emission units or emissions from those units. The New Source Review (NSR) permit is the mechanism for these authorizations.

The Honorable Royce West Page 2 July 11, 2024

Re: Accepted Federal Operating Permit Significant Revision Application

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

Samuel Short, Deputy Director

Air Permits Division

Office of Air

Texas Commission on Environmental Quality

Jon Niermann, *Chairman*Bobby Janecka, *Commissioner*Catarina R. Gonzales, *Commissioner*Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 11, 2024

THE HONORABLE YVONNE DAVIS TEXAS HOUSE OF REPRESENTATIVES PO BOX 2910 AUSTIN TX 78768-2910

Re: Accepted Federal Operating Permit Significant Revision Application

Project Number: 36830
Permit Number: O1333
Solar Turbines Incorporated
Dallas Overhaul Center
Desoto. Dallas County

Regulated Entity Number: RN100219963 Customer Reference Number: CN600127518

Dear Representative Davis:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) significant revision application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. 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 application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.850277,32.6275&level=13.

The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site.

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

Samuel Short, Deputy Director Air Permits Division

Office of Air

Texas Commission on Environmental Quality

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TEXAS STATE (1)



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Search

Sen. Royce West (D)

Last modified on: 01-11-2023 20:53:48

➡ Back to Texas Senate (/online/txsenate/)

TX Senator (Texas Senate (/online/txsenate/))

Entered Office: 01-1993 Term Ends: 01-2025

District: 23

General Information

Profession: Attorney Home Town: Dallas Birthdate: 09-26-1952

Spouse: Carol

Download vCard (/online/vcard/?id=16772&office=16704) (? (/online/aboutvcards/))



+ Add to Favorites (/online/add_favorite/?name=Sen. Royce West)

Personal Information

BA, MA-University of Texas at Arlington; JD-University of Houston

S-1993-present

Office Information

Dist. 23 - Dallas (33%), Tarrant (4%)

Committees

Transportation-VC (/online/sencom/detail.php?id=304); Education (/online/sencom/detail.php?id=300); Finance (/online/sencom/detail.php?id=301); Higher Education (/online/sencom/detail.php?id=418); Local Government (/online/sencom/detail.php?id=305); Redistricting-Special (/online/sencom/detail.php?id=532)

Contact and Phone Numbers

Capitol Office:

1E.5

Capitol Phone: (512) 463-0123 Capitol Fax: (512) 463-0299

Oistrict Map (http://www.fyi.legis.texas.gov/fyiwebdocs/pdf/senate/dist23/m1.pdf)

Dallas District Office

5787 S. Hampton Road, Suite 385

Dallas, TX 75232 (214) 467-0123 (214) 467-0050

Staff

Office	Office Holder	Phone / Fax
Chief of Staff	LaJuana D. Barton (/online/person/? id=16773&staff=69)	(512) 463-0123
Legislative Director/Fiscal Analyst	Vince Leibowitz (/online/person/? id=68035&staff=9856)	(512) 463-0123
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Bill Filings (http://www.legis.state.tx.us/)

Bill Search (http://www.legis.state.tx.us/Search/BillSearch.aspx)

Texas at Your Fingertips (https://texas.gov/)

State Symbols (https://www.thestoryoftexas.com/education/texas-symbols)

Governor Appointment (https://gov.texas.gov/news/category/appointment)

Addressing Procedures (https://lrl.texas.gov/genInfo/ContactLeg.cfm)

TEXAS STATE (1)

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FRANK MALINAK III (COUNTY JUDGE) (/ONLINE/SEARCH/?

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RANDY BRANCH (MAYOR) (/ONLINE/SEARCH/?TOSEARCH=RANDY+BRANCH+%28MAYOR%29&SEARCHCAT=1)

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FIND MY INCUMBENT (HTTP://WWW.FYI.LEGIS.STATE.TX.US/)	>
CAPITOL MAPS (HTTPS://TSPB.TEXAS.GOV/PLAN/MAPS/MAPS.HTML)	>
BILL FILINGS (HTTP://WWW.LEGIS.STATE.TX.US/)	;
BILL SEARCH (HTTP://WWW.LEGIS.STATE.TX.US/SEARCH/BILLSEARCH.ASPX)	;
TEXAS AT YOUR FINGERTIPS (HTTPS://TEXAS.GOV/)	;
STATE SYMBOLS (HTTP://WWW.LEGIS.STATE.TX.US/RESOURCES/STATESYMBOLS.ASPX)	>
GOVERNOR APPOINTMENT (HTTPS://GOV.TEXAS.GOV/NEWS/CATEGORY/APPOINTMENT)	

Contact Us

Texas State Directory Press 1800 Nueces St. Austin, Texas 78701

(512) 473-2447

 ■ Contact Us (/contact/)

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From: <u>Johnny Bowers</u>
To: <u>Rosa Mora-Nichols</u>

Subject: FW: STEERS Title V Application Submittal (New Application)

Date: Monday, July 8, 2024 7:33:54 AM

Please process. Thanks!

----Original Message-----

From: steers@tceq.texas.gov <steers@tceq.texas.gov>

Sent: Wednesday, July 3, 2024 9:22 AM

To: RFCAIR4 < RFCAIR4@tceq.texas.gov>; TVAPPS < tvapps@tceq.texas.gov>

Subject: STEERS Title V Application Submittal (New Application)

The TV-E application has been successfully submitted by ADAM NAMMARI. The submittal was received at 07/03/2024 09:22 AM.

The Reference number for this submittal is 663622

The confirmation number for this submittal is 549243.

The Area ID for this submittal is 1333.

The Project ID for this submittal is 36830.

The hash code for this submittal is

D4B6E9C75413317238AE03EB85CF5DFB6D75FA173BDCFF57C618A3DBB258B2A8.

You may access the original application submittal and the notice of final action documents from the COR Viewer which is available at https://ida.tceq.texas.gov/steersstaff/index.cfm? fuseaction=openadmin.submitlog&newsearch=yes.

If you have any questions, please contact the STEERS Help Line at 512-239-6925 or by e-mail at steers@tceq.texas.gov.

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

Federal Operating Permit Program

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

Subchapter B: Vent Gas Control

Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/03/2024	O1333	RN100219963

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
GRPPRE-FLR	R5121-FLARES	NO	NO	REGVAPPL		100-		YES

Applicable Requirements Summary Form OP-REQ3 (Page 1) Federal Operating Permit Program

Table 1a: Additions

Date: 07/03/2024	Regulated Entity No.: RN100219963		Permit No.: O1333
Company Name: Solar Turbines Incorporated		Area Name: Dallas Overhaul Center	

Revision No.	Unit/Group/ Process ID No.	Unit/Group /Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
1	GRPPRE-FLR	OP-UA15	R5121- FLARES	VOC	Chapter 115	§115.127(a)(2), §115.127(a)(2)(A), [G]§115.122(a)(4)

Applicable Requirements Summary Form OP-REQ3 (Page 2) Federal Operating Permit Program

Table 1b: Additions

Date: 07/03/2024	Regulated Entity No.: RN100219963	Permit No.: O1333
Company Name: Solar Turbines Incorporated	Area Name: Dallas Overhaul Center	

Revision No.	Unit/Group/ Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	GRPPRE-FLR	R5121- FLARES	VOC	[G]§115.125, §115.126(2)	\$115.126, \$115.126(2), \$115.126(4)	None

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

Date	Permit No.	Regulated Entity No.	
07/03/2024	O1333	RN100219963	

Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
1	PRE-TC6F	OP-UA15	Pre-Flare TC6F Vent		20041	N196M2, PSDTX1590M1
1	PRE-TC7F	OP-UA15	Pre-Flare TC7F Vent		20041	N196M2, PSDTX1590M1
1	PRE-HFF1	OP-UA15	Pre-Flare HFF1 Vent		20041	N196M2, PSDTX1590M1
		Revision No. No. 1 PRE-TC6F 1 PRE-TC7F	1 PRE-TC6F OP-UA15 PRE-TC7F OP-UA15	Revision No. No. Applicable Form Unit/Process Name/ Description 1 PRE-TC6F OP-UA15 Pre-Flare TC6F Vent 1 PRE-TC7F OP-UA15 Pre-Flare TC7F Vent	Contractors Revision No. Contractors No. Applicable Form Unit/Process Name/ Description Unit/Process CAM 1 PRE-TC6F OP-UA15 Pre-Flare TC6F Vent 1 PRE-TC7F OP-UA15 Pre-Flare TC7F Vent	Unit/Process Revision No. Unit/Process Applicable Form Unit/Process Name/ Description Unit/Process CAM Authorizations 30 TAC Chapter 116/30 TAC Chapter 106 1 PRE-TC6F OP-UA15 Pre-Flare TC6F Vent 20041 1 PRE-TC7F OP-UA15 Pre-Flare TC7F Vent 20041

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

Table 2

Date	Permit No.	Regulated Entity No.
07/03/2024	O1333	RN100219963

Revision No.	ID No.	Applicable Form	Group AI	Group ID No.
1	PRE-TC6F	OP-UA15	A	GRPPRE-FLR
1	PRE-TC7F	OP-UA15	A	GRPPRE-FLR
1	PRE-HFF1	OP-UA15	A	GRPPRE-FLR

Federal Operating Permit Program Application for Permit Revision/Renewal Form OP-2-Table 1

Texas Commission on Environmental Quality

Date: 07/03/2024	
Permit No.: O1333	
Regulated Entity No.: RN100219963	
Company Name: Solar Turbines Incorporated	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	∑ YES ☐ NO
I. Application Type	
Indicate the type of application:	
Renewal	
Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
Significant Revision	
Revision Requesting Prior Approval	
Administrative Revision	
Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	⊠ YES □ NO
For GOP Revisions Only	YES NO

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

III.	. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)					
Indicate all pollutants for which the site is a major source based on the site's potential to emit: (Check the appropriate box[es].)						
$\boxtimes VC$	\bigcirc NO _X	\square SO ₂	\square PM ₁₀	СО	☐ Pb	□HAP
Other:						
IV.	IV. Reference Only Requirements (For reference only)					
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?						
V. Delinquent Fees and Penalties						
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

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

Date: 07/03/2024

Permit No.: O1333

Regulated Entity No.: RN100219963

Company Name: Solar Turbines Incorporated

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

			Unit/Group	Process		
Revision No.	Revision Code	New Unit	ID No.	Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
1	SIG-D	YES	PRE-TC6F, PRE-TC7F, PRE-HFF1/ GRPPRE-FLR	OP-UA15, OP-REQ3, OP-SUMR	20041, N196M2, PSDTX1590M1	Regarding the new hydrogen fuel firing project for Test Cell Nos. 6 and 7 (see NSR Project No. 375826), three new flares will be installed at the site. The appropriate forms are attached. No changes in unique attributes will occur for the test cells, Unit ID Nos. TC6 and TC7. The modification will be authorized under provisions of FCAA, Title 1.
2	SIG-D	YES	TC6, TC7, PRE-TC6F, PRE-TC7F, PRE-HFF1	Major NSR Summary Table	20041, N196M2, PSDTX1590M1	Regarding the new hydrogen fuel firing project for Test Cell Nos. 6 and 7, the currently proposed amendment creates the need to update the Major NSR Summary Table for the Title V permit. A draft copy of the table is attached. Also, the finalized federal nonattainment and PSD permit will need to be attached and the new permit issuance date should be incorporated on the Title V permit's NSR Authorization References Table.
3	SIG-D	YES	NA	OP-REQ1	20041, N196M2, PSDTX1590M1	The new hydrogen fuel firing project will cause the site to become subject to 40 CFR 68, Chemical Accident Prevention Provisions. A page from the Form OP-REQ1 is provided to indicate this rule applicability.

Federal Operating Permit Program Application for Permit Revision/Renewal Form OP-2-Table 3

Texas Commission on Environmental Quality

Date	e: 07/03/2024				
Pern	nit No.: O1333				
Regi	Regulated Entity No.: RN100219963				
Com	npany Name: Solar Turbines Incorporated				
I.	Significant Revision (Complete this section if you are submitting a significant revision application or a renewal application significant revision.)	on that includes a			
A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322?	∑ YES ☐ NO			
B.	Indicate the alternate language(s) in which public notice is required: Spanish				
C.	Will, there be a change in air pollutant emissions as a result of the significant revision?	⊠ YES □ NO			

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

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

Pollutant	Description of the Change in Pollutant Emissions
NOx	Previously authorized emissions of 112.47 tons/yr increase by 24.26 tons/yr to an estimated 136.73 tons/yr due to new hydrogen fuel firing
СО	Previously authorized emissions of 64.08 tons/yr increase by 85.00 tons/yr to an estimated 149.08 tons/yr due to increased testing at low loads
VOC	Previously authorized emissions of 8.82 tons/yr increase by 5.59 tons/yr to an estimated 14.41 tons/yr due to increased testing at low loads
PM/PM ₁₀ /PM _{2.5}	Previously authorized emissions of 12.03 tons/yr do not increase since the use of hydrogen lessens the amount of natural gas fuel firing
SO ₂	Previously authorized emissions of 7.33 tons/yr increase by 0.03 tons/yr to an estimated 7.36 tons/yr due to the small amount of sulfur in the natural gas fired in the new flares

Texas Commission on Environmental Quality

Title V Existing 1333

DALLAS OVERHAUL CENTER

Site Information (Regulated Entity)

What is the name of the permit area to be

authorized?

Does the site have a physical address?

Yes

Physical Address

Number and Street 215 E CENTRE PARK BLVD

 City
 DESOTO

 State
 TX

 ZIP
 75115

 County
 DALLAS

 Latitude (N) (##.######)
 32.6275

 Longitude (W) (-###.#####)
 96.850277

 Primary SIC Code
 3511

Secondary SIC Code

Primary NAICS Code 333611

Secondary NAICS Code

Regulated Entity Site Information

What is the Regulated Entity's Number (RN)? RN100219963

What is the name of the Regulated Entity (RE)? SOLAR TURBINES DLS OVERHAUL CENTER

Does the RE site have a physical address?

Physical Address

Number and Street 215 E CENTRE PARK BLVD

 City
 DESOTO

 State
 TX

 ZIP
 75115

 County
 DALLAS

 Latitude (N) (##.#####)
 32.6275

 Longitude (W) (-###.######)
 -96.850277

Facility NAICS Code

What is the primary business of this entity? INDUSTRIAL CHEMICAL MANUFACTURING

PLANT

Customer (Applicant) Information

How is this applicant associated with this site?

Owner Operator
What is the applicant's Customer Number

CN600127518

(CN)?

Type of Customer Corporation

Full legal name of the applicant:

Legal Name Solar Turbines Incorporated

Texas SOS Filing Number5330206Federal Tax ID953621514State Franchise Tax ID19536215148

State Sales Tax ID

Local Tax ID

DUNS Number 42261099

Number of Employees 101-250

Independently Owned and Operated? No

Responsible Official Contact

Person TCEQ should contact for questions

about this application:

Organization Name SOLAR TURBINES INCORPORATED

Prefix MR
First ADAM

Middle

Last NAMMARI

Suffix

Credentials

Title PLANT MANAGER

Enter new address or copy one from list:

Mailing Address

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if 215 E CENTRE PARK BLVD

applicable)

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

 City
 DESOTO

 State
 TX

 ZIP
 75115

 Phone (###-###)
 9722285535

Extension

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

Fax (###-###) 9722286180

E-mail NAMMARI_ADAM_Z@SOLARTURBINES.COM

Technical Contact

Person TCEQ should contact for questions

about this application:

Select existing TC contact or enter a new GIL DIEKHOFF(SOLAR TURBINES ...)

contact.

Organization Name SOLAR TURBINES INCORPORATED

Prefix MR First GIL

Middle

Last DIEKHOFF

Suffix

Credentials

Title EHS MANAGER

Enter new address or copy one from list:

Mailing Address

Address Type Domestic

Mailing Address (include Suite or Bldg. here, if

applicable)

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

DESOTO City TX State

ZIP 75115

Extension

Phone (###-###)

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

Fax (###-###-###) 9722286180

DIEKHOFF GIL P@SOLARTURBINES.COM E-mail

Title V General Information - Existing

SOP 1) Permit Type:

2) Permit Latitude Coordinate: 32 Deg 37 Min 39 Sec 3) Permit Longitude Coordinate: 96 Deg 51 Min 1 Sec

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

4.1. What type of permitting action are you Significant Revision

applying for? 4.1.1. Are there any permits that should be

No voided upon issuance of this permit application

4.1.2. Are there any permits that should be No voided upon issuance of this permit application

through permit consolidation? 5) Does this application include Acid Rain No

Program or Cross-State Air Pollution Rule

requirements?

Title V Attachments Existing

through permit conversion?

Attach OP-1 (Site Information Summary)

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

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?

fileId=204329>OP_2_op-2 062824.docx

215 E CENTRE PARK BLVD

9722286157

Hash CE4A971C139573966655D1E13CBA498739E796E213FDAB86850FA93AA1A78350

MIME-Type application/vnd.openxmlformats-

officedocument.wordprocessingml.document

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

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

[File Properties]

File Name OP REQ3 op-req3

062924.docx

055384C89078830DF4B7CBEDD8FF30FA5DA2ABEB2EBA0F39634668125B54C4C3 Hash

MIME-Type application/vnd.openxmlformats-

officedocument.wordprocessingml.document

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?

fileId=204331>OP_SUMR_op-sumr

062924.docx

Hash A0B7209463B867C29EC67D1FC2CE0A76D1B04A138A76BEA0E2A617EDA9E3C77F

MIME-Type application/vnd.openxmlformats-

officedocument.wordprocessingml.document

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?

fileId=204332>op-ua15 062924.docx

Hash A483479D8A1731C97271A5D30F9A4D61DDD5C3F5A1FD36E4A8D1924326D47C82

MIME-Type application/vnd.openxmlformats-

officedocument.wordprocessingml.document

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

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?

fileId=204333>Solar Turbines TC-6 and TC-7

significant revision 070324.pdf

Hash CE2ABD513DB6FE8EDD1F32AF60986BAF04644E79B01EA05B9998A905BB7AEAD3

MIME-Type application/pdf

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

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?

fileId=204334>Major NSR Summary Table

20041 062424.docx

Hash 35CEB411A7D212EB2BAFD7855C7F51CBA675284D53454003B1DD9D277EC2BCF7

MIME-Type application/vnd.openxmlformats-

officedocument.wordprocessingml.document

Expedite Title V

Certification

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

- 1. I am Adam Z Nammari, the owner of the STEERS account ER055736.
- 2. I have the authority to sign this data on behalf of the applicant named above.
- 3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
- 4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
- 5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
- 6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
- 7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
- 8. I am knowingly and intentionally signing Title V Existing 1333.
- 9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Adam Z Nammari OWNER OPERATOR

Account Number: ER055736
Signature IP Address: 198.180.154.30
Signature Date: 2024-07-03

Signature Hash: 2FF6706C514A69CD2EC258DC9B0D46729ED1648AF75FBC14F4D8F5C85D4790A3
Form Hash Code at time of Signature: D4B6E9C75413317238AE03EB85CF5DFB6D75FA173BDCFF57C618A3DBB258B2A8

Submission

Reference Number: The application reference number is 663622

Submitted by:

The application was submitted by ER055736/Adam Z Nammari

Submitted Timestamp: The application was submitted on 2024-07-03

at 09:22:04 CDT

Submitted From: The application was submitted from IP address

198.180.154.30

Confirmation Number: The confirmation number is 549243

Steers Version: The STEERS version is 6.78
Permit Number: The permit number is 1333

Additional Information

Application Creator: This account was created by Stuart L Keil

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY TITLE V PERMIT 01333

SIGNIFICANT REVISION REQUEST

SOLAR TURBINES INCORPORATED DESOTO, DALLAS COUNTY ACCOUNT ID NO. DB-1494-I CUSTOMER NO. 600127518 REGULATED ENTITY NO. 100219963

July 3, 2024

Prepared by:

STUART L. KEIL

50683

C. CENSEO

SSIONAL ENGIN

Stuart L. Keil, P.E. Keil Environmental, Inc. 413 Honeycomb Ridge Austin, Texas 78746

TBPELS Registration No. F-4725

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Solar Turbines Incorporated July 2024

ATTACHMENT A EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Solar Turbines Incorporated's (Solar's) proposed new project is designed to facilitate the use of hydrogen fuel in Solar's largest gas turbines, a cutting-edge technology that should allow for decarbonization within the energy industry through the reduction of natural gas fuel firing. Europe and other regions are trending towards mandating hydrogen capabilities in gas turbines resulting in Solar's need to develop hydrogen technology to stay competitive in the gas turbine market. Solar plans to utilize this proposed project at the DeSoto facility to develop turbine emission efficiency on hydrogen blends. Therefore, Solar intends to modify Test Cell Nos. 6 and 7 (existing EPNs TC6 and TC7 respectively) by adding facilities that allow for hydrogen fuel testing.

Each test cell will be equipped with an enclosed flare to be used in safely routing the hydrogen from the hydrogen farm to the cells (EPNs TC6F and TC7F, respectively, or Unit ID Nos. PRE-TC6F and PRE-TC7F). The new hydrogen farm will have four storage tanks and its own safety flare (EPN HFF1, or Unit ID No. PRE-HFF1). Also, it should be noted that both cells will be equipped with new blowers to insert cooling air into the exhaust stack for safety purposes.

Hydrogen testing will occur in one test cell at a time and the worst-case hour could include emissions from the test cell, its flare and the hydrogen farm flare. Hours for hydrogen testing will be limited and random.

Testing on hydrogen blends has shown that NO_x levels will increase significantly compared to turbines running on pure natural gas. With hydrogen blends, all other pollutants (CO, VOC, PM, and SO₂) will decrease as hydrogen in the blended fuel increases. Therefore, this project estimates higher NO_x hourly emissions for both cells and higher annual emissions for Test Cell No. 7.

Although hydrogen testing will not increase CO and VOC due to development testing with hydrogen blends, the CO and VOC hourly emissions for Test Cell Nos. 6 and 7 will be increased to allow for more testing at low loads. In addition, improvements are proposed for annual CO and VOC emissions for Test Cell No. 7. Also, slight improvements are proposed for TC6's hourly emissions from liquid fuel firing for CO and VOC emissions.

Lastly, Test Cell No. 6 will undergo a significant rebuild that allows for additional configurations of turbines to be tested in the cell. The size of the turbines to be tested will not change and permitted annual emission limits will not change. As part of this rebuild, the TC6 stack will be moved a couple meters.

The project is subject to federal nonattainment review due to increased NO_x emissions and federal Prevention of Significant Deterioration (PSD) review due to increased NO_x and CO emissions.

Solar Turbines Incorporated July 2024

ATTACHMENT B APPLICATION FOR PERMIT REVISION/RENEWAL, FORM OP-2

Federal Operating Permit Program Application for Permit Revision/Renewal Form OP-2-Table 1

Texas Commission on Environmental Quality

Date: 07/03/2024	
Permit No.: O1333	
Regulated Entity No.: RN100219963	
Company Name: Solar Turbines Incorporated	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	ES NO
I. Application Type	
Indicate the type of application:	
Renewal	
Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
Significant Revision	
Revision Requesting Prior Approval	
Administrative Revision	
Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	YES NO
For GOP Revisions Only	ES NO

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

III.	Major Source Pollutants (Com	plete this section if the	permit revision is due t	o a change at the site or c	hange in regulations	.)
	Indicate all pollutants for which the site is a major source based on the site's potential to emit: (Check the appropriate box[es].)					
⊠ vo	C \square NO_X	\square SO ₂	\square PM ₁₀	СО	☐ Pb	□НАР
Other:						
IV.	Reference Only Requirements	(For reference only)				
Has th	Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?					
V.	Delinquent Fees and Penalties					
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

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

Date: 07/03/2024

Permit No.: O1333

Regulated Entity No.: RN100219963

Company Name: Solar Turbines Incorporated

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

			Unit/Group	Process		
Revision No.	Revision Code	New Unit	ID No.	Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
1	SIG-D	YES	PRE-TC6F, PRE-TC7F, PRE-HFF1/ GRPPRE-FLR	OP-UA15, OP-REQ3, OP-SUMR	20041, N196M2, PSDTX1590M1	Regarding the new hydrogen fuel firing project for Test Cell Nos. 6 and 7 (see NSR Project No. 375826), three new flares will be installed at the site. The appropriate forms are attached. No changes in unique attributes will occur for the test cells, Unit ID Nos. TC6 and TC7. The modification will be authorized under provisions of FCAA, Title 1.
2	SIG-D	YES	TC6, TC7, PRE-TC6F, PRE-TC7F, PRE-HFF1	Major NSR Summary Table	20041, N196M2, PSDTX1590M1	Regarding the new hydrogen fuel firing project for Test Cell Nos. 6 and 7, the currently proposed amendment creates the need to update the Major NSR Summary Table for the Title V permit. A draft copy of the table is attached. Also, the finalized federal nonattainment and PSD permit will need to be attached and the new permit issuance date should be incorporated on the Title V permit's NSR Authorization References Table.
3	SIG-D	YES	NA	OP-REQ1	20041, N196M2, PSDTX1590M1	The new hydrogen fuel firing project will cause the site to become subject to 40 CFR 68, Chemical Accident Prevention Provisions. A page from the Form OP-REQ1 is provided to indicate this rule applicability.

Federal Operating Permit Program Application for Permit Revision/Renewal Form OP-2-Table 3

Texas Commission on Environmental Quality

Date	e: 07/03/2024	
Pern	nit No.: O1333	
Regi	ulated Entity No.: RN100219963	
Com	npany Name: Solar Turbines Incorporated	
I.	Significant Revision (Complete this section if you are submitting a significant revision application or a renewal applicant revision.)	olication that includes a
A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322?	∑ YES □ NO
B.	Indicate the alternate language(s) in which public notice is required: Spanish	
C.	Will, there be a change in air pollutant emissions as a result of the significant revision?	⊠ YES □ NO

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

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

Pollutant	Description of the Change in Pollutant Emissions
NO _x	Previously authorized emissions of 112.47 tons/yr increase by 24.26 tons/yr to an estimated 136.73 tons/yr due to new hydrogen fuel firing
СО	Previously authorized emissions of 64.08 tons/yr increase by 85.00 tons/yr to an estimated 149.08 tons/yr due to increased testing at low loads
VOC	Previously authorized emissions of 8.82 tons/yr increase by 5.59 tons/yr to an estimated 14.41 tons/yr due to increased testing at low loads
PM/PM ₁₀ /PM _{2.5}	Previously authorized emissions of 12.03 tons/yr do not increase since the use of hydrogen lessens the amount of natural gas fuel firing
SO_2	Previously authorized emissions of 7.33 tons/yr increase by 0.03 tons/yr to an estimated 7.36 tons/yr due to the small amount of sulfur in the natural gas fired in the new flares

Solar Turbines Incorporated July 2024

ATTACHMENT C EMISSION POINT/STATIONARY VENT/DISTILLATION OPERATION VENT/PROCESS VENT ATTRIBUTES, FORM OP-UA15, TABLE 2

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

Federal Operating Permit Program

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

Subchapter B: Vent Gas Control

Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.	
07/03/2024	O1333	RN100219963	

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
GRPPRE-FLR	R5121-FLARES	NO	NO	REGVAPPL		100-		YES

Solar Turbines Incorporated July 2024

ATTACHMENT D APPLICABLE REQUIREMENTS SUMMARY, FORM OP-REQ3

Applicable Requirements Summary Form OP-REQ3 (Page 1) Federal Operating Permit Program

Table 1a: Additions

Date: 07/03/2024	Regulated Entity No.	: RN100219963	Permit No.: O1333
Company Name: Solar Turbines Incorp	porated	Area Name: Dallas Overhaul Center	

Revision No.	Unit/Group/ Process ID No.	Unit/Group /Process Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
1	GRPPRE-FLR	OP-UA15	R5121- FLARES	VOC	Chapter 115	§115.127(a)(2), §115.127(a)(2)(A), [G]§115.122(a)(4)

Applicable Requirements Summary Form OP-REQ3 (Page 2) Federal Operating Permit Program

Table 1b: Additions

Date: 07/03/2024	Regulated Entity No.: RN100219963	Permit No.: O1333
Company Name: Solar Turbines Incorporated	Area Name: Dallas Overhaul Center	

Revision No.	Unit/Group/ Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	GRPPRE-FLR	R5121- FLARES	VOC	[G]§115.125, §115.126(2)	§115.126, §115.126(2), §115.126(4)	None

Solar Turbines Incorporated July 2024

ATTACHMENT E INDIVIDUAL UNIT SUMMARY FOR REVISIONS, FORM OP-SUMR

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

Table 1

Date	Permit No.	Regulated Entity No.	
07/03/2024	O1333	RN100219963	

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I
A	1	PRE-TC6F	OP-UA15	Pre-Flare TC6F Vent		20041	N196M2, PSDTX1590M1
A	1	PRE-TC7F	OP-UA15	Pre-Flare TC7F Vent		20041	N196M2, PSDTX1590M1
A	1	PRE-HFF1	OP-UA15	Pre-Flare HFF1 Vent		20041	N196M2, PSDTX1590M1

Texas Commission on Environmental Quality Federal Operating Permit Program Individual Unit Summary for Revisions Form OP-SUMR Table 2

Date	Permit No.	Regulated Entity No.	
07/03/2024	O1333	RN100219963	

Revision No.	ID No.	Applicable Form	Group AI	Group ID No.
1	PRE-TC6F	OP-UA15	A	GRPPRE-FLR
1	PRE-TC7F	OP-UA15	A	GRPPRE-FLR
1	PRE-HFF1	OP-UA15	A	GRPPRE-FLR

Solar Turbines Incorporated July 2024

ATTACHMENT F MAJOR NSR SUMMARY TABLE

Permit Number	s: 20041 and N196M1 and P	SDTX1590		Issuance Date:			
Emission		Air	Emissio	n Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	106.9				
		СО	84.8				
		VOC	46.6				
TC1	Test Cell 1 Gas fuel firing	PM	5.3		2, 3, 9	9, 10	
		PM ₁₀	5.3				
		PM _{2.5}	5.3				
		SO ₂	2.0				
		NO _x	181.5			9, 10	
		СО	88.8				
		VOC	20.4	1			
TC1	Test Cell 1 Liquid fuel firing	PM	15.7	1	2, 3, 9		
		PM ₁₀	15.7	1			
		PM _{2.5}	15.7	1			
		SO ₂	7.5	1			
		NO _x		100.2			
		CO		27.7			
	Test Cell 1 - Annual	VOC		9.4			
TC1	Emission Rate	PM		10.7	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		10.7		·	
		PM _{2.5}		10.7			
		SO ₂		2.9			

Permit Number	rs: 20041 and N196M1 and PS	SDTX1590		Issuance Date:			
Emission		Air	Emissio	on Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	8.7				
		СО	18.4				
		VOC	4.7				
TC2	Test Cell 2 Gas Fuel Firing	PM	0.7		2, 3, 9	9, 10	
		PM ₁₀	0.7				
		PM _{2.5}	0.7		-		
		SO ₂	0.4				
		NOx	13.0			9, 10	
		СО	37.0				
		VOC	4.7				
TC2	Test Cell 2 Liquid Fuel Firing	PM	3.5		2, 3, 9		
		PM ₁₀	3.5				
		PM _{2.5}	3.5				
		SO ₂	1.5				
		NOx		8.7			
		CO		9.2			
	Test Cell 2 – Annual	VOC		0.9			
TC2	Emission Rates	PM		1.9	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		1.9			
		PM _{2.5}		1.9			
		SO ₂		0.8			

Permit Numbers: 20041 and N196M1 and PSDTX1590					Issuance Date:		
Emission	0(0)	Air	Emissio	on Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	80.0				
		СО	84.8				
		VOC	13.5				
TC3	Test Cell 3 Gas Fuel Firing	PM	2.5		2, 3, 9	9, 10	
		PM ₁₀	2.5				
		PM _{2.5}	2.5				
		SO ₂	1.1				
		NOx	120.0		2, 3, 9		
		СО	45.6				
		VOC	7.2			9, 10	
TC3	Test Cell 3 Liquid Fuel Firing	PM	15.7				
		PM ₁₀	15.7				
		PM _{2.5}	15.7				
		SO ₂	4.8				
		NOx		35.9			
		СО		19.4			
	Test Cell 3 – Annual	VOC		1.8			
TC3	Emission Rates	PM		10.7	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		10.7		3, 10	
		PM _{2.5}		10.7			
		SO ₂		2.7			

Permit Number	s: 20041 and N196M1 and PS	SDTX1590		Issuance Date:			
Emission	Emission Air		Emissio	on Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	106.9				
		СО	84.8				
		VOC	46.6				
TC4	Test Cell 4 Gas Fuel Firing	PM	5.3		2, 3, 9	9, 10	
		PM ₁₀	5.3				
		PM _{2.5}	5.3				
		SO ₂	2.0				
		NOx	181.5				
		СО	41.3				
		VOC	14.3			9, 10	
TC4	Test Cell 4 Liquid Fuel Firing	PM	15.7		2, 3, 9		
		PM ₁₀	15.7				
		PM _{2.5}	15.7				
		SO ₂	7.5				
		NOx		100.2			
		СО		27.7			
	Test Cell 4 – Annual	VOC		9.4			
TC4	Emission Rates	PM		10.7	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		10.7	_, 0, 0		
	, ,	PM _{2.5}		10.7			
		SO ₂		2.9			

Permit Numbers: 20041 and N196M1 and PSDTX1590					Issuance Date:		
Emission	0(0)	Air	Emissio	on Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	192.8				
		СО	30.0				
		VOC	8.8				
TC5	Test Cell 5 Gas Fuel Firing	PM	8.5		2, 3, 9	9, 10	
		PM ₁₀	8.5				
		PM _{2.5}	8.5				
		SO ₂	3.8				
		NOx	338.8				
		СО	30.0				
		VOC	8.8			9, 10	
TC5	Test Cell 5 Liquid Fuel Firing	PM	12.1		2, 3, 9		
		PM ₁₀	12.1				
		PM _{2.5}	12.1				
		SO ₂	14.1				
		NO _x		74.53			
		CO		25.48			
	Test Cell 5 – Annual	VOC		5.81			
TC5	Emission Rates	PM		7.49	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		7.49			
		PM _{2.5}		7.49			
		SO ₂		4.15			

Permit Number	s: 20041 and N196M1 and PS	SDTX1590		Issuance Date:			
Emission	Air		Emissio	n Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	949.83				
		СО	1,415.08				
		VOC	16.17				
TC6	Test Cell 6 Gas Fuel Firing	PM	4.21		2, 3, 9	9, 10	
		PM ₁₀	4.21				
		PM _{2.5}	4.21				
		SO ₂	3.04				
		NO _x	409.53		2, 3, 9		
		СО	417.12				
		VOC	31.78			9, 10	
TC6	Test Cell 6 Liquid Fuel Firing	PM	13.60				
		PM ₁₀	13.60				
		PM _{2.5}	13.60				
		SO ₂	0.35				
		NO _x		39.78			
		CO		49.46			
	Test Cell 6 – Annual	VOC		4.03			
TC6	Emission Rates	PM		9.88	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		9.88	_, 5, 5	0, 10	
		PM _{2.5}		9.88			
		SO ₂		5.24			

Permit Number	s: 20041 and N196M1 and PS	SDTX1590		Issuance Date:			
Emission		Air	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	1,978.02				
		СО	1,410.31				
		VOC	107.07				
TC7	Test Cell 7 Gas Fuel Firing	PM	3.66		2, 3, 9	9, 10	
		PM ₁₀	3.66				
		PM _{2.5}	3.66				
		SO ₂	4.92				
		NOx	989.01		2, 3, 9		
		СО	1,645.36				
		VOC	535.35			9, 10	
TC7	Test Cell 7 Liquid Fuel Firing	PM	8.22				
		PM ₁₀	8.22				
		PM _{2.5}	8.22				
		SO ₂	0.60				
		NOx		48.31			
		СО		99.19			
	Test Cell 7 – Annual	VOC		10.37			
TC7	Emission Rates	PM		2.15	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing	PM ₁₀		2.15	, -, -	-, -	
		PM _{2.5}		2.15			
		SO ₂		2.09			

Permit Number	s: 20041 and N196M1 and P	SDTX1590		Issuance Date:			
Emission		Air			Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x		73.46			
		СО		99.19			
	Test Cell 7 – Annual Emission Rates	VOC		10.37			
TC7	Gas and Liquid Fuel Firing –	PM		2.15	2, 3, 9	9, 10	14
	2027 (5)	PM ₁₀		2.15			
		PM _{2.5}		2.15			
		SO ₂		2.09			
		NO _x		82.15	2, 3, 9		
		СО		99.19			
	Test Cell 7 – Annual Emission Rates	VOC		10.37		9, 10	14
TC7	Gas and Liquid Fuel Firing –	PM		2.15			
	2028 (6)	PM ₁₀		2.15			
		PM _{2.5}		2.15			
		SO ₂		2.09			
		NOx		96.69			
		CO		99.19			
	Test Cell 7 – Annual	VOC		10.37			
TC7	Emission Rates	PM		2.15	2, 3, 9	9, 10	14
	Gas and Liquid Fuel Firing – 2029 and thereafter (7)	PM ₁₀		2.15	2, 0, 0	3, 10	
		PM _{2.5}		2.15			
		SO ₂		2.09			

Permit Number	rs: 20041 and N196M1 and P	SDTX1590		Issuance Date:			
Emission		Air	Air Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		NO _x	2.38	0.03			
	T 10 N 0	СО	3.97	0.05			14
TC6F	Test Cell No. 6 Flare	VOC	0.12	0.001			14
		SO ₂	0.19	0.002			
		NO _x	2.38	0.03			
	T 10 11 7 11	СО	3.97	0.05			14
TC7F	Test Cell No. 7 Flare	VOC	0.12	0.001			14
		SO ₂	0.19	0.002			
		NO _x	16.27	0.20			
		СО	27.12	0.33			14
HFF1	Hydrogen Farm Flare	VOC	0.80	0.01			14
		SO ₂	1.30	0.02			
F1	TC1, TC3-5 Process Fugitives (8)	voc	0.6	0.3			
F2	TC2 Process Fugitives (8)	VOC	0.3	0.1			
F3	TC6 Process Fugitives (8)	VOC	0.01	0.01			
S1	Oil/Water Separator	VOC	0.1	0.3			
S2	TC6 Oil/Water Separator	VOC	0.01	0.05			
S3	TC7 Oil/Water Separator	VOC	0.01	0.05			

Permit Numbe	rs: 20041 and N196M1 and F	SDTX1590		Issuance Date:			
Emission		Air	Emissio	on Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Point No. (1)	Source Name (2)	Contaminant Name (3)	lbs/hour	TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
		VOC	0.08	0.37			
		PM	0.60	2.63			
CT1	Cooling Tower	PM ₁₀	0.15	0.66			
		PM _{2.5}	0.01	0.03			
		Cl ₂	<0.01	<0.01			
		VOC	0.1	0.4			
		PM	0.60	2.63			
СТЗ	Cooling Tower	PM ₁₀	0.15	0.66			
		PM _{2.5}	0.01	0.03			
		Cl ₂	<0.01	<0.01			
		VOC	0.08	0.37			
		PM	0.06	0.26			
CT4	TC6 Cooling Tower	PM ₁₀	0.02	0.09			
		PM _{2.5}	<0.01	<0.01			
		Cl ₂	<0.01	<0.01			
		VOC	0.08	0.37			
		PM	0.06	0.26			
CT5	TC7 Cooling Tower No. 5	PM ₁₀	0.02	0.07]		
		PM _{2.5}	<0.01	<0.01			
		Cl ₂	<0.01	<0.01			

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

CO carbon monoxide

VOC volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1 PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5} PM_{10} total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5} $PM_{2.5}$ particulate matter equal to or less than 2.5 microns in diameter

 SO_2 sulfur dioxide chlorine Cl_2

- Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- Emission rates for EPN TC7 are effective for calendar year 2027, and/or for the subsequent calendar year following approval from TCEQ EBT for the NO_x emission credits.
- Emission rates for EPN TC7 are effective for calendar year 2028, and/or for the subsequent calendar year following approval from TCEQ EBT for the NO_x emission credits.
- Emission rates for EPN TC7 are effective for calendar year 2029, and thereafter, following approval from TCEQ EBT for the NO_x emission credits.
- Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Solar Turbines Incorporated July 2024

ATTACHMENT G APPLICATION AREA-WIDE APPLICABILITY DETERMINATIONS AND GENERAL INFORMATION, FORM OP-REQ1, PAGE 76

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

Date:	07/03/2024
Permit No.:	O1333
RN No.:	RN100219963

For SOP applications, answer ALL questions unless otherwise directed.

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

Forn	ı OP-l	REQ1:	Page 76		
IX.	Title	40 Ca	ode of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prev	ention Pro	visions
	A.	Appl	icability		
•		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
X.	Title	40 Ca	ode of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratosphe	eric Ozone	
	A.	Subp	oart 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
	B.	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 Banucts Containing or Manufactured with Class II Substances	on Noness	ential
*		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

Solar Turbines Incorporated July 2024

ATTACHMENT H COPY OF THE CURRENT NSR PERMIT NOS. 20041, N196M1 AND PSDTX1590 (to be amended)

Jon Niermann, *Chairman*Bobby Janecka, *Commissioner*Catarina R. Gonzales, *Commissioner*Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 23, 2024

MR ADAM Z NAMMARI GENERAL MANAGER SOLAR TURBINES INCORPORATED 215 E CENTRE PARK BLVD DESOTO TX 75115-2481

Re: Permit Alteration

Permit Number: 20041

Expiration Date: December 23, 2025

Solar Turbines Incorporated

Solar Turbines Dallas Overhaul Center

Desoto, Dallas County

Regulated Entity Number: RN100219963 Customer Reference Number: CN600127518

Associated Permit Numbers: N196M1 and PSDTX1590

Dear Mr. Nammari:

SOLAR TURBINES INCORPORATED has requested alteration of the conditions and Maximum Allowable Emission Rates Table (MAERT) of the above-referenced permit.

In accordance with Title 30 Texas Administrative Code §116.116(c), Permit Number 20041 is altered. Enclosed are the new general conditions, altered special conditions, and altered MAERT. Please attach these to your permit.

All preconstruction authorizations (including authorization for emissions of greenhouse gases, if applicable) should be obtained prior to start of construction.

If you need further information or have any questions, please contact Ms. Oreoluwa Adetutu at (512) 239-1251 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Mr. Adam Z Nammari Page 2 February 23, 2024

Re: Permit Number: 20041

Sincerely,

Samuel Short, Deputy Director Air Permits Division Office of Air

Texas Commission on Environmental Quality

Enclosure

cc: Air Section Manager, Region 4 - Dallas/Fort Worth
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection
Agency, Region 6, Dallas



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To Solar Turbines Incorporated Authorizing the Construction and Operation of Solar Turbines Dallas Overhaul Center Located at Desoto, Dallas County, Texas Latitude 32.6275 Longitude -96.850277

Permits: 20041, N	196M1 and PSDTX1590	
Revision Date:	February 23, 2024	- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
Expiration Date:	December 23, 2025	
		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
- 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

Revised (10/12)

1

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

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

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius °F = Temperature in degrees Fahrenheit °K = Temperature in degrees Kelvin

μg = microgram

µg/m³ = microgram per cubic meter acfm = actual cubic feet per minute AMOC = alternate means of control AOS = alternative operating scenario

AP-42 = Air Pollutant Emission Factors, 5th edition

APD = Air Permits Division

API = American Petroleum Institute APWL = air pollutant watch list BPA = Beaumont/ Port Arthur

BACT = best available control technology

BAE = baseline actual emissions

bbl = barrel

bbl/day = barrel per day bhp = brake horsepower

BMP = best management practices

Btu = British thermal unit

Btu/scf = British thermal unit per standard cubic foot or feet

CAA = Clean Air Act

CAM = compliance-assurance monitoring

CEMS = continuous emissions monitoring systems

cfm = cubic feet (per) minute

CFR = Code of Federal Regulations

CN = customer ID number CNG = compressed natural gas

CO = carbon monoxide

COMS = continuous opacity monitoring system CPMS = continuous parametric monitoring system

DFW = Dallas/ Fort Worth (Metroplex)

DE = destruction efficiency

DRE = destruction and removal efficiency dscf = dry standard cubic foot or feet

dscfm = dry standard cubic foot or feet per minute

ED = (TCEQ) Executive Director

EF = emissions factor

EFR = external floating roof tank EGU = electric generating unit EI = Emissions Inventory

ELP = El Paso

EPA = (United States) Environmental Protection Agency

EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number

ft = foot or feet

ft/sec = foot or feet per second

g = gram

gal/wk = gallon per week gal/yr = gallon per year

GLC = ground level concentration

GLC_{max} = maximum (predicted) ground-level

concentration

gpm = gallon per minute

gr/1000scf = grain per 1000 standard cubic feet gr/dscf = grain per dry standard cubic feet

H₂CO = formaldehyde H₂S = hydrogen sulfide H₂SO₄ = sulfuric acid

HAP = hazardous air pollutant as listed in § 112(b) of the

Federal Clean Air Act or Title 40 Code of Federal

Regulations Part 63, Subpart C

HC = hydrocarbons

HCI = hydrochloric acid, hydrogen chloride

Hg = mercury

HGB = Houston/Galveston/Brazoria

hp = horsepower

hr = hour

IFR = internal floating roof tank

in H₂O = inches of water in H_g = inches of mercury

IR = infrared

ISC3 = Industrial Source Complex, a dispersion model ISCST3 = Industrial Source Complex Short-Term, a

dispersion model

K = Kelvin; extension of the degree Celsius scaled-down

to absolute zero

LACT = lease automatic custody transfer LAER = lowest achievable emission rate

lb = pound

lb/day = pound per day lb/hr = pound per hour

lb/MMBtu = pound per million British thermal units LDAR = Leak Detection and Repair (Requirements)

LNG = liquefied natural gas LPG = liquefied petroleum gas

LT/D = long ton per day

m = meter

m³ = cubic meter

m/sec = meters per second

MACT = maximum achievable control technology MAERT = Maximum Allowable Emission Rate Table MERA = Modeling and Effects Review Applicability

mg = milligram

mg/g = milligram per gram

mL = milliliter

MMBtu = million British thermal units

MMBtu/hr = million British thermal units per hour

MSDS = material safety data sheet

MSS = maintenance, startup, and shutdown

MW = megawatt

NAAQS = National Ambient Air Quality Standards

NESHAP = National Emission Standards for Hazardous

Air Pollutants

NGL = natural gas liquids

NNSR = nonattainment new source review

 NO_x = total oxides of nitrogen

NSPS = New Source Performance Standards

PAL = plant-wide applicability limit

PBR = Permit(s) by Rule

PCP = pollution control project

PEMS = predictive emission monitoring system

PID = photo ionization detector

PM = periodic monitoring

PM = total particulate matter, suspended in the

atmosphere, including PM₁₀ and PM_{2.5}, as represented

 $PM_{2.5}$ = particulate matter equal to or less than 2.5

microns in diameter

 PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented

POC = products of combustion

ppb = parts per billion

ppm = parts per million

ppmv = parts per million (by) volume

psia = pounds (per) square inch, absolute

psig = pounds (per) square inch, gage

PTE = potential to emit

RA = relative accuracy

RATA = relative accuracy test audit

RM = reference method

RVP = Reid vapor pressure

scf = standard cubic foot or feet

scfm = standard cubic foot or feet (per) minute

SCR = selective catalytic reduction

SIL = significant impact levels

SNCR = selective non-catalytic reduction

SO₂ = sulfur dioxide

SOCMI = synthetic organic chemical manufacturing

industry

SRU = sulfur recovery unit

TAC = Texas Administrative Code

TCAA = Texas Clean Air Act

TCEQ = Texas Commission on Environmental Quality

TD = Toxicology Division

TLV = threshold limit value

TMDL = total maximum daily load

tpd = tons per day

tpv = tons per vear

TVP = true vapor pressure

VOC = volatile organic compounds as defined in Title 30

Texas Administrative Code § 101.1

VRU = vapor recovery unit or system

Special Conditions

Permit Number 20041, N196M1, and PSDTX1590

Emission Standards

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates (MAERT)," and those sources are limited to the emission limits and other conditions specified in that attached table. Compliance with the annual emission limits shall be based on a rolling 12-month year rather than the calendar year.

If any condition or limitation of this permit or of any Texas Commission on Environmental Quality (TCEQ) regulation is more stringent than another, then the more stringent condition or limitation shall govern and be the standard by which compliance will be demonstrated.

Opacity / Visible Emissions

- 2. Opacity of emissions from Emission Point Nos. (EPNs): TC2 and TC3 must not exceed 20 percent; EPNs: TC1, TC4, TC6 and TC7 must not exceed 15 percent and EPN: TC5 must not exceed 10 percent averaged over a six-minute period except for those periods described in Title 30 Texas Administrative Code § 111.111(a)(1)(E). Opacity shall be determined by using the U.S. Environmental Protection Agency Method 9. (08/21)
- 3. A visual check of the test cell exhaust shall be made on each turbine immediately after startup, while idling, and at each test load. If excess visible emissions are expected to be present for more than the six minutes allowed in 30 TAC § 111.111(a)(1)(E) for the initial start-up, or if excess visible emissions occur while idling or after a test load change, the unit under test shall be shut down as soon as practicable and not restarted until the cause of the excess emissions has been corrected. (08/21)

Fuel Limitations

- 4. Fuel fired in the turbines under testing is limited to one of the following:
 - A. Pipeline-quality, sweet natural gas containing no more than 5.0 grains total sulfur per 100 dry standard cubic feet.
 - B. Distillate fuel oil containing no more than 0.05 weight percent total sulfur for EPNs: TC1 through TC5. (12/14)
 - C. Distillate fuel oil for EPNs: TC6 and TC7 is limited to a sulfur content of 15 parts per million, wet. (08/21)
 - D. Distillate fuel oil firing is limited as follows: (08/21)
 - (1) Distillate fuel oil shall not be fired in EPNs TC1 through TC5 for more than a total of 16 hours per 24-hour period;
 - (2) No more than two test cells among EPNs TC1 through TC5 shall fire distillate fuel oil concurrently;
 - (3) Distillate fuel firing in EPN TC7 shall not occur when distillate fuel is also fired in more than two other cells among EPNs TC1 through TC6.

Operational Limitations

- 5. All parking lots and plant roads shall be paved and regularly cleaned to achieve maximum control of dust emissions.
- 6. Contaminated lubricating oil drained from the turbines shall be washed down the waste oil handling system as soon as practicable.
- 7. All lubricating oil and fuel oil spills shall be cleaned up immediately or washed into the waste oil handling system as soon as practicable.
- 8. Waste lubricating oil shall be stored in closed containers until shipped off-site by an authorized waste disposal service.

Continuous Demonstration of Compliance

9. To demonstrate compliance with Special Condition No. 1, actual emissions of nitrogen oxides, carbon monoxide, volatile organic compounds, and particulate matter from each test cell will be calculated according to the following formula: (08/10)

Emissions = Nominal or Engine-Specific Emission Factor x Actual Fuel Usage during the Test

- A. Emissions must be in pounds per hour (lb/hr);
- B. The emission factor must be in pounds of pollutant per pound of fuel (lb of emissions/lb of fuel) or pounds of emissions per million British thermal units (lb of emissions/MMBtu), must be pollutant specific, considering the fuel type and emission controls, and be the nominal emission factors used to develop guaranteed emission levels provided to customers or engine-specific emission factors. These factors are to be derived from the manufacturer's emission test database or from an emissions model if the turbines have not been tested before, and these factors may be corrected for ambient conditions at the test cell; and (08/21)
- C. The actual fuel usage during the test will be expressed in pounds or MMBtu per hour (lb/hr or MMBtu/hr), as applicable, depending on the units used in Special Condition 9.B, above.
 - Actual emissions of sulfur dioxide (SO₂) will be calculated by assuming that the fuel has the maximum sulfur content allowed under Special Condition No. 4 and that 100 percent of the sulfur in the fuel is converted to SO₂. The permit holder may base these calculations either on full load fuel consumption for the duration of the test or on the actual fuel consumption during each test.

Recordkeeping Requirements

- 10. In addition to the recordkeeping requirements specified in General Condition No. 7, the following records shall be maintained at the plant site on a five-year rolling retention basis and be made available at the request of personnel of the TCEQ or any air pollution control agency with jurisdiction. (08/21)
 - A. The following data shall be recorded for each turbine test: model of turbine tested, the type of fuel fired, the duration of the test, and whether water injection was used.

- B. The data required in Special Condition No. 9.A shall be recorded daily, and a summary shall be produced monthly that represents emissions from each test cell in lb/hr on a daily basis and tons emitted for the previous 12-month period. The data shall be reduced using the calculation methods specified in Special Condition No. 9.
- C. The daily, monthly, and annual records required in Special Condition No. 10.A and 10.B shall be kept in a central location with examples of the method of data reduction including units, conversion factors, assumptions, and the basis of the assumptions.
- D. To demonstrate compliance with Special Condition No. 4, the permit holder must keep records of fuel analyses, as obtained from the supplier on an annual basis for natural gas and on a shipment basis for liquid fuel, or must maintain a contract with the fuel supplier that guarantees compliance. (06/02)
- E. The holder of this permit shall document the check for visible emissions in order to show compliance with Special Condition No. 3. **(01/07)**
- F. Records of annual emissions from Test Cell 7 (EPN TC7) shall be maintained which demonstrate compliance with the annualized MAERT and Nonattainment New Source Review (NNSR) Emission Reductions limitations in this permit. These records of emissions shall be calculated utilizing the methodology found in Special Condition No. 9. (08/21)
- G. The holder of this permit shall document hazardous air pollutant emissions resulting from the operation of all sources at the site to demonstrate compliance with Special Condition No. 17. (09/04)

Nonattainment New Source Review (NNSR) - Emission Reductions

- 11. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H. (08/21)
- 12. This NNSR permit is issued/approved based on the use of 47.8 tpy of NO_x emission credits from TCEQ Emission Reduction Credit Certificate (ERCC) No. 2803. This ERCC provides offsets at the ratio of 1.2 to 1 for 39.8 tpy of NO_x from EPN: TC6. The NO_x emission rate is for calculation purposes only and is not an enforceable allowable emission rate. **(02/15)**
- 13. This NNSR permit is issued/approved based on the future requirement to obtain and provide 87.3 tpy of NO_x emission reduction credits, as specified in Special Condition No. 14, to offset the 72.69 tpy emission increase for EPN: TC7 authorized by this permit at a ratio of 1.2 to 1. The permit holder shall use the total number of tons of NO_x credits each year as outlined in the table below to offset the NOx project emission increase for the facility, as follows: (02/24)

Calendar Year or Later	Emissions Increase tpy	Credits to be Provided tpy
2023	9.89	11.9
2024	10.78	13.0
2025	11.67	14.0

Calendar Year or Later	Emissions Increase tpy	Credits to be Provided tpy
2026	24.31	29.2
2027	49.46	59.4
2028	58.15	69.8
2029 and thereafter	72.69	87.3

- A. The permit holder shall use 14.0 tpy of NO_x ERCs from TCEQ credit certificate numbers 4013, 4014, 4015, 4016, 4017, and 4018 to offset NO_x project increase for the facility authorized by this permit at a ratio of 1.2 to 1.0 for calendar years 2023, 2024, and 2025.
- B. The permit holder was approved to use 26.3 tpy of NO_X ERCs from TCEQ credit certificate numbers 4112, 4113, and 4114 to offset the NO_X project increase for the facility authorized by this permit at a ratio of 1.2 to 1.0. A total of 15.2 tpy will satisfy the NO_X project emission increase for the facility through calendar year 2026. The additional 11.1 tpy will be applied towards the Credits to be Provided value for calendar year 2027.
- 14. The permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number. The following options are available: (08/21)
 - A. Obtain and use NOx Emission Reduction Credits (ERCs). A completed ERC use application shall be submitted to the TCEQ EBT Program at least 90 days before the year of operation of the facilities covered by this permit. The permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number.
 - B. Obtain and use NOx Discrete Emission Reduction Credits (DERCs) for each year of authorized operation. The permit holder shall submit a completed DERC intent to use application form by August 1st prior to the continuing of operations each year, and the intent to use must be reviewed and approved by the TCEQ EBT Program for compliance with 30 Texas Administrative Code §101.376(f). Additionally, the permit holder shall submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify the DERCs by TCEQ DERC certificate number to cover, at a minimum, one year of operation of the permitted facilities.
 - (1) In accordance with 30 Texas Administrative Code §101.372(i) in areas having an ozone season of less than 12 months (as defined in 40 Code of Federal Regulations Part 58, Appendix D), NOx discrete emission credits generated outside the ozone season may not be used during the ozone season.
 - C. A combination of ERCs and DERCs can be used provided that the total credits satisfy the amounts specified in Special Condition No. 13 and that the appropriate EBT Program usage applications and the appropriate Air Permits Division alteration or amendment applications are submitted. (08/21)

Additional Permit Requirements

- 15. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the TCEQ or the local air pollution control agency with appropriate jurisdiction.
- 16. The holder of this permit shall physically identify and mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows:
 - The facility identification numbers as submitted to the Emissions Inventory Section of the TCEQ.
 - B. The EPNs as listed on the maximum allowable emission rates table.
- 17. The holder of this permit shall operate the facilities at this site such that for hazardous air pollutants (HAPs), which have been listed pursuant to § 112(b) of the Federal Clean Air Act:
 - A. Emissions of any single HAP shall not exceed 10 tons per year (tpy).
 - B. Emissions of all HAPs combined shall not exceed 25 tpy. (09/04)

Referenced Authorizations

18. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. (08/21)

Authorization	Source or Activity
PBR 106.472	Diesel Fuel Tank No. 2 (EPN: DFT2)

Date: February 23, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20041, N196M1, and PSDTX1590

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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)	Source Name (2)		lb/hour	TPY (4)
TC1	Test Cell 1	NO _x	106.9	-
	Gas fuel firing	СО	84.8	-
		VOC	46.6	-
		РМ	5.3	-
		PM ₁₀	5.3	-
		PM _{2.5}	5.3	-
		SO ₂	2.0	-
TC1	Test Cell 1 Liquid fuel firing	NOx	181.5	-
		СО	88.8	-
		VOC	20.4	-
		РМ	15.7	-
		PM ₁₀	15.7	-
		PM _{2.5}	15.7	-
		SO ₂	7.5	-
TC1	Test Cell 1 - Annual Emission Rate	NO _x	-	100.2
	Gas and Liquid Fuel Firing	СО	-	27.7
		VOC	-	9.4
		РМ	-	10.7
		PM ₁₀	-	10.7
		PM _{2.5}	-	10.7
		SO ₂	-	2.9

Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
TC2	Test Cell 2	NOx	8.7	-
	Gas Fuel Firing	со	18.4	-
		VOC	4.7	-
		РМ	0.7	-
		PM ₁₀	0.7	-
		PM _{2.5}	0.7	-
		SO ₂	0.4	-
TC2	Test Cell 2	NO _x	13.0	-
	Liquid Fuel Firing	со	37.0	-
		VOC	4.7	-
		PM	3.5	-
		PM ₁₀	3.5	-
		PM _{2.5}	3.5	-
		SO ₂	1.5	-
TC2	Test Cell 2 – Annual Emission Rates Gas and Liquid Fuel Firing	NOx	-	8.7
		СО	-	9.2
		VOC	-	0.9
		РМ	-	1.9
		PM ₁₀	-	1.9
		PM _{2.5}	-	1.9
		SO ₂	-	0.8

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
TC3	Test Cell 3 Gas Fuel Firing	NOx	80.0	-
		со	84.8	-
		voc	13.5	-
		PM	2.5	-
		PM ₁₀	2.5	-
		PM _{2.5}	2.5	-
		SO ₂	1.1	-
TC3	Test Cell 3 Liquid Fuel Firing	NO _x	120.0	-
		СО	45.6	-
		VOC	7.2	-
		PM	15.7	-
		PM ₁₀	15.7	-
		PM _{2.5}	15.7	-
		SO ₂	4.8	-
TC3	Test Cell 3 – Annual Emission Rates	NOx	-	35.9
	Gas and Liquid Fuel Firing	со	-	19.4
		VOC	-	1.8
		PM	-	10.7
		PM ₁₀	-	10.7
		PM _{2.5}	-	10.7
		SO ₂	-	2.7

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
TC4	Test Cell 4	NOx	106.9	-
	Gas Fuel Firing	СО	84.8	-
		VOC	46.6	-
		PM	5.3	-
		PM ₁₀	5.3	-
		PM _{2.5}	5.3	-
		SO ₂	2.0	-
TC4	Test Cell 4	NO _x	181.5	-
	Liquid Fuel Firing	СО	41.3	-
		VOC	14.3	-
		РМ	15.7	-
		PM ₁₀	15.7	-
		PM _{2.5}	15.7	-
		SO ₂	7.5	-
TC4	Test Cell 4	NOx	-	100.2
	Gas and Liquid Fuel Firing	СО	-	27.7
		VOC	-	9.4
		РМ	-	10.7
		PM ₁₀	-	10.7
		PM _{2.5}	-	10.7
		SO ₂	-	2.9

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
TC5	Test Cell 5	NOx	192.8	-
	Gas Fuel Firing	СО	30.0	-
		VOC	8.8	-
		PM	8.5	-
		PM ₁₀	8.5	-
		PM _{2.5}	8.5	-
		SO ₂	3.8	-
TC5	Test Cell 5	NO _x	338.8	-
	Liquid Fuel Firing	СО	30.0	-
		VOC	8.8	-
		РМ	12.1	-
		PM ₁₀	12.1	-
		PM _{2.5}	12.1	-
		SO ₂	14.1	-
TC5	Test Cell 5 – Annual Emission Rates	NOx	-	74.53
	Gas and Liquid Fuel Firing	со	-	25.48
		voc	-	5.81
		РМ	-	7.49
		PM ₁₀	-	7.49
		PM _{2.5}	-	7.49
		SO ₂	-	4.15

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
TC6	Test Cell 6 Gas Fuel Firing	NOx	298.43	-
		СО	26.00	-
		VOC	1.49	-
		РМ	4.21	-
		PM ₁₀	4.21	-
		PM _{2.5}	4.21	-
		SO ₂	3.04	-
TC6	Test Cell 6	NOx	409.53	-
	Liquid Fuel Firing	СО	26.29	-
		voc	7.50	-
		РМ	13.60	-
		PM ₁₀	13.60	-
		PM _{2.5}	13.60	-
		SO ₂	0.35	-
TC6	Test Cell 6 – Annual Emission Rates	NOx	-	39.78
	Gas and Liquid Fuel Firing	СО	-	49.46
		voc	-	4.03
		РМ	-	9.88
		PM ₁₀	-	9.88
		PM _{2.5}	-	9.88
		SO ₂	-	5.24

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
TC7	Test Cell 7	NOx	659.34	-
	Gas Fuel Firing	СО	469.11	-
		VOC	10.69	-
		PM	3.66	-
		PM ₁₀	3.66	-
		PM _{2.5}	3.66	-
		SO ₂	4.92	-
TC7	Test Cell 7	NO _x	989.01	-
	Liquid Fuel Firing	СО	470.11	-
		VOC	10.72	-
		РМ	8.22	-
		PM ₁₀	8.22	-
		PM _{2.5}	8.22	-
		SO ₂	0.60	-
TC7	Test Cell 7 – Annual Emission Rates	NOx	-	24.31
	Gas and Liquid Fuel Firing	СО	-	6.04
		voc	-	0.46
		РМ	-	1.53
		PM ₁₀	-	1.53
		PM _{2.5}	-	1.53
		SO ₂	-	1.88

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lb/hour	TPY (4)
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2027 (5)	NOx	-	49.46
		СО	-	5.84
		VOC	-	0.46
		PM	-	1.72
		PM ₁₀	-	1.72
		PM _{2.5}	-	1.72
		SO ₂	-	1.71
TC7	Test Cell 7 – Annual Emission Rates	NO _x	-	58.15
	Gas and Liquid Fuel Firing – 2028 (6)	СО	-	5.74
		VOC	-	0.47
		PM	-	1.72
		PM ₁₀	-	1.72
		PM _{2.5}	-	1.72
		SO ₂	-	1.67
TC7	Test Cell 7 – Annual Emission Rates (7)	NO _x	-	72.69
	Gas and Liquid Fuel Firing – 2029 and thereafter	СО	-	7.17
		voc	-	0.59
		PM	-	2.15
		PM ₁₀	-	2.15
		PM _{2.5}	-	2.15
		SO ₂	-	2.09

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates	
(1)	Source Name (2)	Name (3)	lb/hour	TPY (4)
F1	TC1, TC3-5 Process Fugitives (8)	voc	0.6	0.3
F2	TC2 Process Fugitives (8)	voc	0.3	0.1
F3	TC6 Process Fugitives (8)	VOC	0.01	0.01
S1	Oil/Water Separator	VOC	0.1	0.3
S2	TC6 Oil/Water Separator	voc	0.01	0.05
S3	TC7 Oil/Water Separator	voc	0.01	0.05
CT1	Cooling Tower	voc	0.08	0.37
		PM	0.60	2.63
		PM ₁₀	0.15	0.66
		PM _{2.5}	0.01	0.03
		Cl ₂	<0.01	<0.01
СТЗ	Cooling Tower	voc	0.1	0.4
		PM	0.60	2.63
		PM ₁₀	0.15	0.66
		PM _{2.5}	0.01	0.03
		Cl ₂	<0.01	<0.01
CT4	TC6 Cooling Tower	voc	0.08	0.37
		РМ	0.06	0.26
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	<0.01
		Cl ₂	<0.01	<0.01

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Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant	Emission Rates	
		Name (3)	lb/hour	TPY (4)
CT5	CT5 TC7 Cooling Tower No. 5	VOC	0.08	0.37
		PM	0.06	0.26
		PM ₁₀	0.02	0.07
		PM _{2.5}	<0.01	<0.01
		Cl ₂	<0.01	<0.01

(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 - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

 SO_2 - sulfur dioxide Cl_2 - chlorine

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rates for EPN: TC7 are effective for calendar year 2027, and/or for the subsequent calendar year following approval from TCEQ EBT for the NOx emission credits
- (6) Emission rates for EPN: TC7 are effective for calendar year 2028, and/or for the subsequent calendar year following approval from TCEQ EBT for the NOx emission credits
- (7) Emission rates for EPN: TC7 are effective for calendar year 2029 and thereafter, following approval from TCEQ EBT for the NOx emission credits.
- (8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.