From: Stuart L. Keil, P.E.
To: Sheila Monroe
Cc: R6AirPermitsTX@EPA.gov; R4APDMail; Gil Diekhoff; JASON THOMAS; Stuart Keil. P.E.
Subject: Re: FW: Title V Permit O-01333 - Solar Turbines Incorporated CN600127518, RN100219963
Date: Friday, December 5, 2025 11:36:51 AM
Attachments: Solar Turbines Form OP-CRO2 120525.pdf

Sheila, on behalf of Solar Turbines, attached is the signed and dated Form OP-CRO2 that you requested.

Please let us know if you need anything more in these matters.

On 12/5/2025 8:14 AM, Sheila Monroe wrote:

> Good morning Stuart,
>
> Unfortunately, the unsigned Form OP-CRO2 is insufficient to certify the title change.
>
> The OP-CRO2 must be completed and signed for any RO updates, administrative updates, or DAR delegations. This is required even if the form is submitted in STEERS.
>
> Please refer to the attached OP-CRO2 instructions for signature requirements, specifically in the "General" and IV. Certification of Truth, Accuracy, and Completeness" sections.
>
> A signed and dated OP-CRO2 is required to complete the administrative review.
>
> Thank you,
>
> **Sheila Monroe**
> **License & Permit Specialist**
> **Air Permits Initial Review Team**
>
> ---
>
> **From:** Stuart L. Keil, P.E. <keil@flash.net>
> **Sent:** Thursday, December 4, 2025 5:32 PM
> **To:** Sheila Monroe <Sheila.Monroe@tceq.texas.gov>
> **Cc:** Gil Diekhoff <Diekhoff_Gil_P@solarturbines.com>; JASON THOMAS <JASON.THOMAS2@solarturbines.com>; Stuart Keil. P.E. <stuartlkeil@gmail.com>
> **Subject:** Re: FW: Title V Permit O-01333 - Solar Turbines Incorporated CN600127518, RN100219963

Sheila, thanks for your email, but your request is a little confusing. The initial Form OP-CRO2 that identified James Haynes with the correct title of General Manager was submitted through STEERS with a Solar Turbines minor revision request on 9/11/25.

Since that initial Form OP-CRO2 was successfully submitted without a written signature and date, it seems that our effort to simply correct his title would not require that additional effort.

Our understanding is that the electronic submittal signature and date in STEERS is sufficient for the submittal of this form.

Please let us know if you need anything more in these matters.

Stuart L. Keil, P.E.
Keil Environmental, Inc.
413 Honeycomb Ridge
Austin, TX 78746
(512) 306-9983 phone
(512) 517-6718 cell

From: Sheila Monroe <Sheila.Monroe@tceq.texas.gov>
Sent: Thursday, December 4, 2025 9:54 AM
To: Jim Haynes <HAYNES_JIMMY_X@solarturbines.com>; Gil Diekhoff <Diekhoff_Gil_P@solarturbines.com>
Subject: Title V Permit O-01333 - Solar Turbines Incorporated CN600127518, RN100219963
Importance: High

Good morning,

We have received your application for the above referenced permit, and it is currently under review. The following item(s) are required before we can declare the application administratively complete:

- Provide and signature and date on the Form CR-O2 to update the title for James Haynes.

Please email the Form CR-O2 directly to me **within 1 business day**.

Your prompt response is appreciated!

Thanks,

Sheila Monroe
License & Permit Specialist
Air Permits Initial Review Team

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

The Texas Commission on Environmental Quality (TCEQ) shall be notified of a new appointment or administrative information change (e.g., address, phone number, title) for a Responsible Official (RO), Designated Representative (DR), or Alternate Designated Representative (ADR) in the next submittal. This form satisfies the requirements for notification (a revised Certificate of Representation must also be submitted to the U.S. Environmental Protection agency for changes in the DR and ADR). After the initial submittal, if there is a change of Duly Authorized Representative (DAR) appointment or administrative information changes for the DAR, include a revised Form OP-DEL (Delegation of Responsible Official) with the next submittal to TCEQ.

I. Identifying Information
Account No.: DB-1494-I
Regulated Entity Number: RN100219963
Customer Reference Number: CN600127518
Permit Number: O1333
Area Name: Dallas Overhaul Center
Company: Solar Turbines Incorporated
II. Change Type
Action Type: ☐ New Appointment ☒ Administrative Information Change
Contact Type **(only one response accepted per form)**: ☒ Responsible Official ☐ Designated Representative *(Acid Rain Program and/or CSAPR sources only)* ☐ Alternate Designated Representative *(Acid Rain Program and/or CSAPR sources only)*

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

III. Responsible Official/Designated Representative/Alternate Designated Representative Information
Conventional Title: ☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.
Name (Driver's License/STEERS): James Haynes
Title: General Manager
Appointment Effective Date: 07/16/2025
Telephone Number: 619-544-2807
Fax Number.: 972-228-6180
Company Name: Solar Turbines Incorporated
Mailing Address: 215 E. Centre Park Blvd.
City: DeSoto
State: TX
ZIP Code: 75115
Email Address: HAYNES_JIMMY_X@solarturbines.com

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

IV. Certification of Truth, Accuracy, and Completeness
This certification does not extend to information, which is designated by TCEQ as information for reference only.
I, James Haynes, certify that based on information and belief formed Reasonable inquiry, the statement and information stated above are true, accurate, and complete.
Signature:
Signature Date: 12/05/2025

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC1	Test Cell 1 Gas fuel firing	NO_x	106.9	-	2, 3, 9	9, 10	
		CO	84.8	-			
		VOC	46.6	-			
		PM	5.3	-			
		PM_{10}	5.3	-			
		$PM_{2.5}$	5.3	-			
		SO_2	2.0	-			
TC1	Test Cell 1 Liquid fuel firing	NO_x	181.5	-	2, 3, 9	9, 10	
		CO	88.8	-			
		VOC	20.4	-			
		PM	15.7	-			
		PM_{10}	15.7	-			
		$PM_{2.5}$	15.7	-			
		SO_2	7.5	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC1	Test Cell 1 - Annual Emission Rate Gas and Liquid Fuel Firing	NO_x	-	100.2	2, 3, 9	9, 10	14
		CO	-	27.7			
		VOC	-	9.4			
		PM	-	10.7			
		PM_{10}	-	10.7			
		$PM_{2.5}$	-	10.7			
		SO_2	-	2.9			
TC2	Test Cell 2 Gas Fuel Firing	NO_x	8.7	-	2, 3, 9	9, 10	
		CO	18.4	-			
		VOC	4.7	-			
		PM	0.7	-			
		PM_{10}	0.7	-			
		$PM_{2.5}$	0.7	-			
		SO_2	0.4	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC2	Test Cell 2 Liquid Fuel Firing	NO_x	13.0	-	2, 3, 9	9, 10	
		CO	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	NO_x	-	8.7	2, 3, 9	9, 10	14
		CO	-	9.2			
		VOC	-	0.9			
		PM	-	1.9			
		PM_{10}	-	1.9			
		$PM_{2.5}$	-	1.9			
		SO_2	-	0.8			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC3	Test Cell 3 Gas Fuel Firing	NO_x	80.0	-	2, 3, 9	9, 10	
		CO	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	-	2, 3, 9	9, 10	
		CO	45.6	-			
		VOC	7.2	-			
		PM	15.7	-			
		PM_{10}	15.7	-			
		$PM_{2.5}$	15.7	-			
		SO_2	4.8	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC3	Test Cell 3 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	35.9	2, 3, 9	9, 10	14
		CO	-	19.4			
		VOC	-	1.8			
		PM	-	10.7			
		PM_{10}	-	10.7			
		$PM_{2.5}$	-	10.7			
		SO_2	-	2.7			
TC4	Test Cell 4 Gas Fuel Firing	NO_x	106.9	-	2, 3, 9	9, 10	
		CO	84.8	-			
		VOC	46.6	-			
		PM	5.3	-			
		PM_{10}	5.3	-			
		$PM_{2.5}$	5.3	-			
		SO_2	2.0	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC4	Test Cell 4 Liquid Fuel Firing	NO_x	181.5	-	2, 3, 9	9, 10	
		CO	41.3	-			
		VOC	14.3	-			
		PM	15.7	-			
		PM_{10}	15.7	-			
		$PM_{2.5}$	15.7	-			
		SO_2	7.5	-			
TC4	Test Cell 4 Gas and Liquid Fuel Firing	NO_x	-	100.2	2, 3, 9	9, 10	14
		CO	-	27.7			
		VOC	-	9.4			
		PM	-	10.7			
		PM_{10}	-	10.7			
		$PM_{2.5}$	-	10.7			
		SO_2	-	2.9			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC5	Test Cell 5 Gas Fuel Firing	NO_x	192.8	-	2, 3, 9	9, 10	
		CO	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 Liquid Fuel Firing	NO_x	338.8	-	2, 3, 9	9, 10	
		CO	30.0	-			
		VOC	8.8	-			
		PM	12.1	-			
		PM_{10}	12.1	-			
		$PM_{2.5}$	12.1	-			
		SO_2	14.1	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC5	Test Cell 5 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	74.53	2, 3, 9	9, 10	14
		CO	-	25.48			
		VOC	-	5.81			
		PM	-	7.49			
		PM_{10}	-	7.49			
		$PM_{2.5}$	-	7.49			
		SO_2	-	4.15			
TC6	Test Cell 6 Gas Fuel Firing	NO_x	949.83	-	2, 3, 9	9, 10	
		CO	1415.08	-			
		VOC	16.17	-			
		PM	4.21	-			
		PM_{10}	4.21	-			
		$PM_{2.5}$	4.21	-			
		SO_2	3.04	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC6	Test Cell 6 Liquid Fuel Firing	NO_x	409.53	-	2, 3, 9	9, 10	
		CO	417.12	-			
		VOC	31.78	-			
		PM	13.60	-			
		PM_{10}	13.60	-			
		$PM_{2.5}$	13.60	-			
		SO_2	0.35	-			
TC6	Test Cell 6 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	39.78	2, 3, 9	9, 10	14
		CO	-	49.46			
		VOC	-	4.03			
		PM	-	9.88			
		PM_{10}	-	9.88			
		$PM_{2.5}$	-	9.88			
		SO_2	-	5.24			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC7	Test Cell 7 Gas Fuel Firing	NO_x	1978.02	-	2, 3, 9	9, 10	
		CO	1410.31	-			
		VOC	107.07	-			
		PM	3.66	-			
		PM_{10}	3.66	-			
		$PM_{2.5}$	3.66	-			
		SO_2	4.92	-			
TC7	Test Cell 7 Liquid Fuel Firing	NO_x	989.01	-	2, 3, 9	9, 10	
		CO	1645.36	-			
		VOC	535.35	-			
		PM	8.22	-			
		PM_{10}	8.22	-			
		$PM_{2.5}$	8.22	-			
		SO_2	0.60	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2025 (6)	NO_x	-	40.76	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2026 (6)	NO_x	-	92.14	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2027 (6)	NO_x	-	73.46	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2028 (6)	NO_x	-	82.15	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2029 and thereafter (6)	NO_x	-	96.69	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			
TC6F	Test Cell No. 6 Flare	NO_x	0.90	0.01			14
		CO	4.10	0.05			
		VOC	0.12	<0.01			
		SO_2	0.19	<0.01			
TC7F	Test Cell No. 7 Flare	NO_x	0.90	0.01			14
		CO	4.10	0.05			
		VOC	0.12	<0.01			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2	0.19	<0.01			
HFF1	Hydrogen Farm Flare	NO_x	6.15	0.07			14
		CO	28.02	0.34			
		VOC	0.80	0.01			
		SO_2	1.30	0.02			
F1	TC1, TC3-5 Process Fugitives (5)	VOC	0.6	0.3			
F2	TC2 Process Fugitives (5)	VOC	0.3	0.1			
F3	TC6 Process Fugitives (5)	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			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM	0.60	2.63			
		PM_{10}	0.15	0.66			
		$PM_{2.5}$	0.01	0.03			
		Cl_2	<0.01	<0.01			
CT3	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			
		PM	0.06	0.26			
		PM_{10}	0.02	0.09			
		$PM_{2.5}$	<0.01	<0.01			
		Cl_2	<0.01	<0.01			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
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
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 PM_{10} 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
Cl_2 - chlorine
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Upon approval from TCEQ Emissions Banking and Trading (EBT) program for the NOx emission reduction credits associated with any specified calendar year on the permit Special Conditions Table 1, the allowable emission rates for EPN: TC7 are effective for that specified calendar year.

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

Date: 12/03/2025	
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].)*						
☒ VOC	☒ NO_X	☐ SO_2	☐ PM_{10}	☐ CO	☐ Pb	☐ HAP
Other:						
IV. Reference Only Requirements *(For reference only)*						
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?					☒ YES ☐ NO ☐ N/A	
V. Delinquent Fees and Penalties						
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

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

Date: 12/03/2025
Permit No.: O1333
Regulated Entity No.: RN100219963
Company Name: Solar Turbines Incorporated

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

Revision No.	Revision Code		Unit/Group	Process	NSR Authorization	Description of Change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
1	MS-A	NO	TC7	Major NSR Summary Table	20041, N196M12 PSDTX1590M1	Regarding the required offsets for Test Cell No. 7, Solar Turbines Incorporated is submitting an NSR permit alteration application to incorporate the most recent EBT-approved DERC credit certificates. This alteration creates the need to update the Major NSR Summary Table for the Title V permit, to attach the newly issued copy of the federal nonattainment and PSD permit, and to update the permit issuance date on the Title V permit's NSR Authorization References Table.
2	MS-C	NO	NA	OP-CRO2	NA	A new responsible official, James Haynes, was recently identified for the site's permit. However, his title was incorrectly entered into STEERS as Plant Manager. His correct title is General Manager, as noted on the accompanying Form OP-CRO2.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
TITLE V PERMIT O1333

STREAMLINED REVISION REQUEST

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

December 3, 2025

Prepared by:

Stuart L. Keil, P.E.
Keil Environmental, Inc.
413 Honeycomb Ridge
Austin, Texas 78746
TBPELS Registration No. F-4725

Solar Turbines Incorporated
December 2025

TABLE OF CONTENTS

Solar Turbines Incorporated
December 2025

APPENDIX A
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: 12/03/2025	
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].)*						
☒ VOC	☒ NO_X	☐ SO_2	☐ PM_{10}	☐ CO	☐ Pb	☐ HAP
Other:						
IV. Reference Only Requirements *(For reference only)*						
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?					☒ YES ☐ NO ☐ N/A	
V. Delinquent Fees and Penalties						
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

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

Date: 12/03/2025
Permit No.: O1333
Regulated Entity No.: RN100219963
Company Name: Solar Turbines Incorporated

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

Revision No.	Revision Code		Unit/Group	Process	NSR Authorization	Description of Change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
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2	MS-C	NO	NA	OP-CRO2	NA	A new responsible official, James Haynes, was recently identified for the site's permit. However, his title was incorrectly entered into STEERS as Plant Manager. His correct title is General Manager, as noted on the accompanying Form OP-CRO2.

Solar Turbines Incorporated
December 2025

ATTACHMENT B
MAJOR NSR SUMMARY TABLE

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC1	Test Cell 1 Gas fuel firing	NO_x	106.9	-	2, 3, 9	9, 10	
		CO	84.8	-			
		VOC	46.6	-			
		PM	5.3	-			
		PM_{10}	5.3	-			
		$PM_{2.5}$	5.3	-			
		SO_2	2.0	-			
TC1	Test Cell 1 Liquid fuel firing	NO_x	181.5	-	2, 3, 9	9, 10	
		CO	88.8	-			
		VOC	20.4	-			
		PM	15.7	-			
		PM_{10}	15.7	-			
		$PM_{2.5}$	15.7	-			
		SO_2	7.5	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC1	Test Cell 1 - Annual Emission Rate Gas and Liquid Fuel Firing	NO_x	-	100.2	2, 3, 9	9, 10	14
		CO	-	27.7			
		VOC	-	9.4			
		PM	-	10.7			
		PM_{10}	-	10.7			
		$PM_{2.5}$	-	10.7			
		SO_2	-	2.9			
TC2	Test Cell 2 Gas Fuel Firing	NO_x	8.7	-	2, 3, 9	9, 10	
		CO	18.4	-			
		VOC	4.7	-			
		PM	0.7	-			
		PM_{10}	0.7	-			
		$PM_{2.5}$	0.7	-			
		SO_2	0.4	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC2	Test Cell 2 Liquid Fuel Firing	NO_x	13.0	-	2, 3, 9	9, 10	
		CO	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	NO_x	-	8.7	2, 3, 9	9, 10	14
		CO	-	9.2			
		VOC	-	0.9			
		PM	-	1.9			
		PM_{10}	-	1.9			
		$PM_{2.5}$	-	1.9			
		SO_2	-	0.8			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC3	Test Cell 3 Gas Fuel Firing	NO_x	80.0	-	2, 3, 9	9, 10	
		CO	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	-	2, 3, 9	9, 10	
		CO	45.6	-			
		VOC	7.2	-			
		PM	15.7	-			
		PM_{10}	15.7	-			
		$PM_{2.5}$	15.7	-			
		SO_2	4.8	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC3	Test Cell 3 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	35.9	2, 3, 9	9, 10	14
		CO	-	19.4			
		VOC	-	1.8			
		PM	-	10.7			
		PM_{10}	-	10.7			
		$PM_{2.5}$	-	10.7			
		SO_2	-	2.7			
TC4	Test Cell 4 Gas Fuel Firing	NO_x	106.9	-	2, 3, 9	9, 10	
		CO	84.8	-			
		VOC	46.6	-			
		PM	5.3	-			
		PM_{10}	5.3	-			
		$PM_{2.5}$	5.3	-			
		SO_2	2.0	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC4	Test Cell 4 Liquid Fuel Firing	NO_x	181.5	-	2, 3, 9	9, 10	
		CO	41.3	-			
		VOC	14.3	-			
		PM	15.7	-			
		PM_{10}	15.7	-			
		$PM_{2.5}$	15.7	-			
		SO_2	7.5	-			
TC4	Test Cell 4 Gas and Liquid Fuel Firing	NO_x	-	100.2	2, 3, 9	9, 10	14
		CO	-	27.7			
		VOC	-	9.4			
		PM	-	10.7			
		PM_{10}	-	10.7			
		$PM_{2.5}$	-	10.7			
		SO_2	-	2.9			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC5	Test Cell 5 Gas Fuel Firing	NO_x	192.8	-	2, 3, 9	9, 10	
		CO	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 Liquid Fuel Firing	NO_x	338.8	-	2, 3, 9	9, 10	
		CO	30.0	-			
		VOC	8.8	-			
		PM	12.1	-			
		PM_{10}	12.1	-			
		$PM_{2.5}$	12.1	-			
		SO_2	14.1	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC5	Test Cell 5 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	74.53	2, 3, 9	9, 10	14
		CO	-	25.48			
		VOC	-	5.81			
		PM	-	7.49			
		PM_{10}	-	7.49			
		$PM_{2.5}$	-	7.49			
		SO_2	-	4.15			
TC6	Test Cell 6 Gas Fuel Firing	NO_x	949.83	-	2, 3, 9	9, 10	
		CO	1415.08	-			
		VOC	16.17	-			
		PM	4.21	-			
		PM_{10}	4.21	-			
		$PM_{2.5}$	4.21	-			
		SO_2	3.04	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC6	Test Cell 6 Liquid Fuel Firing	NO_x	409.53	-	2, 3, 9	9, 10	
		CO	417.12	-			
		VOC	31.78	-			
		PM	13.60	-			
		PM_{10}	13.60	-			
		$PM_{2.5}$	13.60	-			
		SO_2	0.35	-			
TC6	Test Cell 6 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	39.78	2, 3, 9	9, 10	14
		CO	-	49.46			
		VOC	-	4.03			
		PM	-	9.88			
		PM_{10}	-	9.88			
		$PM_{2.5}$	-	9.88			
		SO_2	-	5.24			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
TC7	Test Cell 7 Gas Fuel Firing	NO_x	1978.02	-	2, 3, 9	9, 10	
		CO	1410.31	-			
		VOC	107.07	-			
		PM	3.66	-			
		PM_{10}	3.66	-			
		$PM_{2.5}$	3.66	-			
		SO_2	4.92	-			
TC7	Test Cell 7 Liquid Fuel Firing	NO_x	989.01	-	2, 3, 9	9, 10	
		CO	1645.36	-			
		VOC	535.35	-			
		PM	8.22	-			
		PM_{10}	8.22	-			
		$PM_{2.5}$	8.22	-			
		SO_2	0.60	-			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2025 (6)	NO_x	-	40.76	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2026 (6)	NO_x	-	92.14	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2027 (6)	NO_x	-	73.46	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2028 (6)	NO_x	-	82.15	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2029 and thereafter (6)	NO_x	-	96.69	2, 3, 9	9, 10	14
		CO	-	99.19			
		VOC	-	10.37			
		PM	-	2.15			
		PM_{10}	-	2.15			
		$PM_{2.5}$	-	2.15			
		SO_2	-	2.09			
TC6F	Test Cell No. 6 Flare	NO_x	0.90	0.01			14
		CO	4.10	0.05			
		VOC	0.12	<0.01			
		SO_2	0.19	<0.01			
TC7F	Test Cell No. 7 Flare	NO_x	0.90	0.01			14
		CO	4.10	0.05			
		VOC	0.12	<0.01			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2	0.19	<0.01			
HFF1	Hydrogen Farm Flare	NO_x	6.15	0.07			14
		CO	28.02	0.34			
		VOC	0.80	0.01			
		SO_2	1.30	0.02			
F1	TC1, TC3-5 Process Fugitives (5)	VOC	0.6	0.3			
F2	TC2 Process Fugitives (5)	VOC	0.3	0.1			
F3	TC6 Process Fugitives (5)	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			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM	0.60	2.63			
		PM_{10}	0.15	0.66			
		$PM_{2.5}$	0.01	0.03			
		Cl_2	<0.01	<0.01			
CT3	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			
		PM	0.06	0.26			
		PM_{10}	0.02	0.09			
		$PM_{2.5}$	<0.01	<0.01			
		Cl_2	<0.01	<0.01			

Major NSR Summary Table

Permit Number 20041, N196M2, and PSDTX1590M1					Issuance Date:		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
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
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 PM_{10} 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
Cl_2 - chlorine
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Upon approval from TCEQ Emissions Banking and Trading (EBT) program for the NOx emission reduction credits associated with any specified calendar year on the permit Special Conditions Table 1, the allowable emission rates for EPN: TC7 are effective for that specified calendar year.

Solar Turbines Incorporated
December 2025

ATTACHMENT C
COPY OF THE CURRENT NSR PERMIT
NOS. 20041, N196M2 AND PSDTX1590M1

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 3, 2025

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: N196M2 and PSDTX1590M1

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 Mr. Huy Pham at (512) 239-1358 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.

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

Project Number: 394890

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, N196M2, and PSDTX1590M1

Revision Date: September 3, 2025

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]
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]

[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
$\mu g/m^3$ = 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
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = 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
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = 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
m^3 = 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 PM_{10} 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
SO_2 = 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
tpy = tons per year
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, N196M2, and PSDTX1590M1

Emission Standards

1. This permit covers only those sources of emissions listed in the attached table entitled “Emi ssion 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 each turbine undergoing testing is limited to one of the following at any time:

   A. Pipeline-quality, sweet natural gas and other gaseous fuels (propane and butane) containing no more than 5.0 grains total sulfur per 100 dry standard cubic feet. In blends, each gaseous fuel must contain no more than 5.0 grains total sulfur per 100 dry standard cubic feet. **(02/25)**

   B. Distillate fuel oil for EPNs: TC1 through TC7 is limited to a sulfur content of 15 parts per million, wet. **(07/24)**

   C. 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.

   D. Hydrogen fuel shall contain no sulfur compounds. In blended hydrogen and natural gas operations, natural gas shall contain no more than 5 grains of total sulfur per 100 dry standard cubic feet. **(02/25)**

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.

9. Hydrogen gas fuel testing shall only occur for turbines operated in Test Cell 6 and Test Cell 7. Hydrogen gas fuel testing shall not occur simultaneously at both Test Cell 6 and Test Cell 7. **(02/25)**

10. Waste gas flow to each flare (EPN TC6F, TC7F, and HFF1) shall be limited to 24 hours of operation per rolling 12-month period. Test Cell No. 6 Flare (EPN TC6F) and Test Cell No. 7 Flare (EPN TC7F) shall not be operated simultaneously. As an alternative to the 24-hour limit, calculations can be maintained to demonstrate compliance with the annual emission limits on the MAERT, provided the annual emission rates are determined and recorded using the actual gas flow rates and the emission factors used in the permit amendment application, PI-1 dated June 26, 2024. Actual flow rates shall be determined using flow monitors or by engineering calculations. At a minimum, emission calculations shall include estimated flow rates, gas heat content, hours of operation, and estimated emissions. **(02/25)**

Continuous Demonstration of Compliance

11. 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), pounds of emissions per million British thermal units (lb of emissions/MMBtu), or pounds per hour (lb/hr) for specific engine loadings. The emission factors 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. Weighted emissions factors, based on the usual variation in load ratings for the development and production tests, may be used as an alternate emission calculation method provided that records of the alternate method are maintained. **(07/24)**

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 No. 11.B, above.

Actual emissions of sulfur dioxide (SO_2) 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 SO_2, or by using the actual sulfur content of the fuel used on site provided that records of the sulfur content of the fuel are provided by the fuel supplier. The permit holder may base these calculations either on full load fuel consumption for the duration of the test, on the actual fuel consumption during each test, or on the mass emission rates expected for each load that that an engine is tested. Weighted emissions factors, based on the usual variation in load ratings for the development and production tests, may be used as an alternate emission calculation method provided that records of the alternate method are maintained. **(07/24)**

Hydrogen Flares (02/25)

12. Flares shall be designed and operated in accordance with the following requirements:

A. The Test Cell No. 6 Flare (EPN TC6F), the Test Cell No. 7 Flare (EPN TC7F), and the Hydrogen Farm Flare (EPN HFF1) shall be limited to receiving and burning natural gas and hydrogen fuel blend streams.

B. The flare systems shall be designed such that the combined natural gas and hydrogen stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity at all times when emissions may be vented to them.

C. The heating value and velocity requirements shall be satisfied during operations authorized by this permit. The flare shall be operated with a flame present and/or have a constant pilot flame at times that gas flow to the flares is expected. The pilot flame, when operating, shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet monitor. The time, date, and duration of any loss of pilot flame shall be recorded. To the extent practicable, each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

D. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours.

Recordkeeping Requirements

13. 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, whether water injection was used, and whether low NOx burner technology was used. **(02/25)**

B. The data required in Special Condition No. 11.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. 11.

C. The daily, monthly, and annual records required in Special Condition No. 13.A and 13.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 hours of operation of each flare as required in Special Condition No. 10, and records of annual mass emission rates as may be required in Special Condition No. 10. Sufficient operating data shall be collected to calculate hourly and annual emissions if requested by the TCEQ. **(02/25)**

G. Records of loss of pilot flame as required in Special Condition 12.C. **(02/25)**

H. 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. 11. **(08/21)**

I. 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

14. 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)**

A. The permit holder shall use 47.8 tpy of NOx ECs from TCEQ credit certificate number 2803 to offset the 39.8 tpy NOx project emission increase for the facilities authorized by this permit (EPN: TC6) at a ratio of 1.2 to 1.0. The NO_x emission rate is for calculation purposes only and is not an enforceable allowable emission rate. **(09/25)**

B. The total credits required to offset the NOx emission increase for EPNs: TC7, TC6F, TC7F, and HFF1 are 123.4 tpy.

(1) The permit holder shall use 40.3 tpy of NO_x ERCs from TCEQ credit certificate numbers 4013, 4014, 4015, 4016, 4017, 4018, 4112, 4113, and 4114 to offset the NO_x project increase for EPN: TC7 at a ratio of 1.2 to 1.0 through the year 2024.

(2) The permit holder shall use 10.4 tpy of NO_x ERCs from TCEQ credit certificate numbers 4383 and 4384 to offset the NO_x emissions increase for EPN: TC7 at a ratio of 1.3 to 1.0 through the year 2025. **(09/25)**

(3) The permit holder shall surrender emission credits, based on the schedule below, to offset the emissions increase for EPN TC7 at a ratio of 1.2 to 1.0 for calendar year

2024 and a ratio of 1.3 to 1.0 starting calendar year 2025. If emission credits cannot be fulfilled for any specified year, then the permit holder shall comply with a previous year's emissions increase associated with the emission credits that can be fulfilled. **(09/25)**

Table 1: Offset Requirements for Calendar Years 2024+

Calendar Year or Later	Emissions Increase (tpy)	Total Accumulated Credits to be Provided (tpy)
2024	24.31	29.2
2025	40.85	50.7
2026	40.85	50.7
2027	73.55	93.2
2028	82.24	104.5
≥2029	96.78	123.4

C. 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. The following options are available: **(09/25)**

(1) 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 start of increased operations for Test Cell No. 7 according to the permit amendment application, PI-1 dated June 26, 2024. 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. **(02/25)**

(2) 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 (unless late submittal criteria are satisfied), 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. **(02/25)**

(a) 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.

(3) A combination of ERCs and DERCs can be used provided that the total credits satisfy the amounts specified in Paragraph B of this Special Condition and that the appropriate EBT Program usage applications and the appropriate Air Permits Division alteration or amendment applications are submitted. **(09/25)**

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:

    A. 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. **(02/25)**

Authorization	Source or Activity
PBR 30 TAC 106.472	Diesel Fuel Tank No. 2 (EPN: DFT2)
PBR No. 16458	Paint Spray Booth (EPN: PSB1)

Date: September 3, 2025

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20041, N196M2, and PSDTX1590M1

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	
			lb/hour	TPY (4)
TC1	Test Cell 1 Gas fuel firing	NO_x	106.9	-
		CO	84.8	-
		VOC	46.6	-
		PM	5.3	-
		PM_{10}	5.3	-
		$PM_{2.5}$	5.3	-
		SO_2	2.0	-
TC1	Test Cell 1 Liquid fuel firing	NO_x	181.5	-
		CO	88.8	-
		VOC	20.4	-
		PM	15.7	-
		PM_{10}	15.7	-
		$PM_{2.5}$	15.7	-
		SO_2	7.5	-
TC1	Test Cell 1 - Annual Emission Rate Gas and Liquid Fuel Firing	NO_x	-	100.2
		CO	-	27.7
		VOC	-	9.4
		PM	-	10.7
		PM_{10}	-	10.7
		$PM_{2.5}$	-	10.7
		SO_2	-	2.9

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
TC2	Test Cell 2 Gas Fuel Firing	NO_x	8.7	-
		CO	18.4	-
		VOC	4.7	-
		PM	0.7	-
		PM_{10}	0.7	-
		$PM_{2.5}$	0.7	-
		SO_2	0.4	-
TC2	Test Cell 2 Liquid Fuel Firing	NO_x	13.0	-
		CO	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	NO_x	-	8.7
		CO	-	9.2
		VOC	-	0.9
		PM	-	1.9
		PM_{10}	-	1.9
		$PM_{2.5}$	-	1.9
		SO_2	-	0.8

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
TC3	Test Cell 3 Gas Fuel Firing	NO_x	80.0	-
		CO	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	-
		CO	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 Gas and Liquid Fuel Firing	NO_x	-	35.9
		CO	-	19.4
		VOC	-	1.8
		PM	-	10.7
		PM_{10}	-	10.7
		$PM_{2.5}$	-	10.7
		SO_2	-	2.7

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
TC4	Test Cell 4 Gas Fuel Firing	NO_x	106.9	-
		CO	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 Liquid Fuel Firing	NO_x	181.5	-
		CO	41.3	-
		VOC	14.3	-
		PM	15.7	-
		PM_{10}	15.7	-
		$PM_{2.5}$	15.7	-
		SO_2	7.5	-
TC4	Test Cell 4 Gas and Liquid Fuel Firing	NO_x	-	100.2
		CO	-	27.7
		VOC	-	9.4
		PM	-	10.7
		PM_{10}	-	10.7
		$PM_{2.5}$	-	10.7
		SO_2	-	2.9

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
TC5	Test Cell 5 Gas Fuel Firing	NO_x	192.8	-
		CO	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 Liquid Fuel Firing	NO_x	338.8	-
		CO	30.0	-
		VOC	8.8	-
		PM	12.1	-
		PM_{10}	12.1	-
		$PM_{2.5}$	12.1	-
		SO_2	14.1	-
TC5	Test Cell 5 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	74.53
		CO	-	25.48
		VOC	-	5.81
		PM	-	7.49
		PM_{10}	-	7.49
		$PM_{2.5}$	-	7.49
		SO_2	-	4.15

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
TC6	Test Cell 6 Gas Fuel Firing	NO_x	949.83	-
		CO	1415.08	-
		VOC	16.17	-
		PM	4.21	-
		PM_{10}	4.21	-
		$PM_{2.5}$	4.21	-
		SO_2	3.04	-
TC6	Test Cell 6 Liquid Fuel Firing	NO_x	409.53	-
		CO	417.12	-
		VOC	31.78	-
		PM	13.60	-
		PM_{10}	13.60	-
		$PM_{2.5}$	13.60	-
		SO_2	0.35	-
TC6	Test Cell 6 – Annual Emission Rates Gas and Liquid Fuel Firing	NO_x	-	39.78
		CO	-	49.46
		VOC	-	4.03
		PM	-	9.88
		PM_{10}	-	9.88
		$PM_{2.5}$	-	9.88
		SO_2	-	5.24

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
TC7	Test Cell 7 Gas Fuel Firing	NO_x	1978.02	-
		CO	1410.31	-
		VOC	107.07	-
		PM	3.66	-
		PM_{10}	3.66	-
		$PM_{2.5}$	3.66	-
		SO_2	4.92	-
TC7	Test Cell 7 Liquid Fuel Firing	NO_x	989.01	-
		CO	1645.36	-
		VOC	535.35	-
		PM	8.22	-
		PM_{10}	8.22	-
		$PM_{2.5}$	8.22	-
		SO_2	0.60	-
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2025 and 2026 (6)	NO_x	-	40.76
		CO	-	99.19
		VOC	-	10.37
		PM	-	2.15
		PM_{10}	-	2.15
		$PM_{2.5}$	-	2.15
		SO_2	-	2.09
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2027 (6)	NO_x	-	73.46
		CO	-	99.19
		VOC	-	10.37

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
		PM	-	2.15
		PM_{10}	-	2.15
		$PM_{2.5}$	-	2.15
		SO_2	-	2.09
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2028 (6)	NO_x	-	82.15
		CO	-	99.19
		VOC	-	10.37
		PM	-	2.15
		PM_{10}	-	2.15
		$PM_{2.5}$	-	2.15
		SO_2	-	2.09
TC7	Test Cell 7 – Annual Emission Rates Gas and Liquid Fuel Firing – 2029 and thereafter (6)	NO_x	-	96.69
		CO	-	99.19
		VOC	-	10.37
		PM	-	2.15
		PM_{10}	-	2.15
		$PM_{2.5}$	-	2.15
		SO_2	-	2.09
TC6F	Test Cell No. 6 Flare	NO_x	0.90	0.01
		CO	4.10	0.05
		VOC	0.12	<0.01
		SO_2	0.19	<0.01
TC7F	Test Cell No. 7 Flare	NO_x	0.90	0.01
		CO	4.10	0.05

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
		VOC	0.12	<0.01
		SO_2	0.19	<0.01
HFF1	Hydrogen Farm Flare	NO_x	6.15	0.07
		CO	28.02	0.34
		VOC	0.80	0.01
		SO_2	1.30	0.02
F1	TC1, TC3-5 Process Fugitives (5)	VOC	0.6	0.3
F2	TC2 Process Fugitives (5)	VOC	0.3	0.1
F3	TC6 Process Fugitives (5)	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
CT3	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

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hour	TPY (4)
CT4	TC6 Cooling Tower	VOC	0.08	0.37
		PM	0.06	0.26
		PM_{10}	0.02	0.09
		$PM_{2.5}$	<0.01	<0.01
		Cl_2	<0.01	<0.01
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
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 PM_{10} 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
Cl_2 - chlorine
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Upon approval from TCEQ Emissions Banking and Trading (EBT) program for the NOx emission reduction credits associated with any specified calendar year on the permit Special Conditions Table 1, the allowable emission rates for EPN: TC7 are effective for that specified calendar year.

Date: September 3, 2025

Solar Turbines Incorporated
December 2025

ATTACHMENT D
CHANGE OF RESPONSIBLE OFFICIAL INFORMATION,
FORM OP-CRO2

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

The Texas Commission on Environmental Quality (TCEQ) shall be notified of a new appointment or administrative information change (e.g., address, phone number, title) for a Responsible Official (RO), Designated Representative (DR), or Alternate Designated Representative (ADR) in the next submittal. This form satisfies the requirements for notification (a revised Certificate of Representation must also be submitted to the U.S. Environmental Protection agency for changes in the DR and ADR). After the initial submittal, if there is a change of Duly Authorized Representative (DAR) appointment or administrative information changes for the DAR, include a revised Form OP-DEL (Delegation of Responsible Official) with the next submittal to TCEQ.

I. Identifying Information
Account No.: DB-1494-I
Regulated Entity Number: RN100219963
Customer Reference Number: CN600127518
Permit Number: O1333
Area Name: Dallas Overhaul Center
Company: Solar Turbines Incorporated
II. Change Type
Action Type: ☐ New Appointment ☒ Administrative Information Change
Contact Type **(only one response accepted per form)**: ☒ Responsible Official ☐ Designated Representative *(Acid Rain Program and/or CSAPR sources only)* ☐ Alternate Designated Representative *(Acid Rain Program and/or CSAPR sources only)*

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

III. Responsible Official/Designated Representative/Alternate Designated Representative Information
Conventional Title: ☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.
Name (Driver's License/STEERS): James Haynes
Title: General Manager
Appointment Effective Date: 07/16/2025
Telephone Number: 619-544-2807
Fax Number.: 972-228-6180
Company Name: Solar Turbines Incorporated
Mailing Address: 215 E. Centre Park Blvd.
City: DeSoto
State: TX
ZIP Code: 75115
Email Address: HAYNES_JIMMY_X@solarturbines.com

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

IV. Certification of Truth, Accuracy, and Completeness
This certification does not extend to information, which is designated by TCEQ as information for reference only. I, _____, certify that based on information and belief formed Reasonable inquiry, the statement and information stated above are true, accurate, and complete. Signature: _____ Signature Date: _____

Texas Commission on Environmental Quality

Title V Existing

1333

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	DALLAS OVERHAUL CENTER
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?	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
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 (CN)?	CN600127518
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Solar Turbines Incorporated
Texas SOS Filing Number	5330206
Federal Tax ID	953621514
State Franchise Tax ID	19536215148

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	JAMES
Middle	
Last	HAYNES
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 applicable)	215 E CENTRE PARK BLVD
Routing (such as Mail Code, Dept., or Attn:)	
City	DESOTO
State	TX
ZIP	75115
Phone (###-###-####)	6195442807
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	haynes_jimmy_x@solarturbines.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	GIL DIEKHOFF(SOLAR TURBINES ...)
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)	215 E CENTRE PARK BLVD
Routing (such as Mail Code, Dept., or Attn:)	
City	DESOTO
State	TX
ZIP	75115
Phone (###-###-####)	9722286157
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9722286180
E-mail	diekhoff_gil_p@solarturbines.com

Title V General Information - Existing

1) Permit Type:	SOP
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 update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Streamlined Revision
4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?	No
4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

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

[File Properties]

File Name	OP_2_Solar Turbines Form OP-2 120325.docx
Hash	1925C3DF394A4462B7E9A834C2F2FF54B2C1EE6EEF8A7613A30FEE419D40E31F
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)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

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

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name	Solar Turbines NSR DERC Minor Revision Request 120325.pdf
Hash	814ED9E67657E19AD1A361A1BE909CF1B9D1E49C7651AC390CA26197711D6C4E
MIME-Type	application/pdf

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

[File Properties]

File Name	Solar Turbines major NSR summary table 120325.docx
Hash	CE731895A78C1B489176C390FD692F84D581E9375A17BB4FD9B7D654D1A236BF
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the 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 James Haynes, the owner of the STEERS account ER115314.
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 enforcemer 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: James Haynes OWNER OPERATOR

Account Number:	ER115314
Signature IP Address:	192.189.129.17
Signature Date:	2025-12-03
Signature Hash:	07D536CF68D3B7A5361085F776CBA249A138BCCA0D5D249C7A7BA84ECEE196B2
Form Hash Code at time of Signature:	ABA6971DAEEC73A4FA25B9873B2D4DCB1A3006A2CF076ED38C0F0213254EC78A

Submission

Reference Number:	The application reference number is 821186
Submitted by:	The application was submitted by ER115314/James Haynes
Submitted Timestamp:	The application was submitted on 2025-12-03 at 11:16:33 CST
Submitted From:	The application was submitted from IP address 192.189.129.17
Confirmation Number:	The confirmation number is 703741
Steers Version:	The STEERS version is 6.93
Permit Number:	The permit number is 1333

Additional Information

Application Creator: This account was created by Stuart L Keil