

Bryan W. Shaw, Ph.D., P.E., *Chairman*
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Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 3, 2014

MR NEIL ODOVONAN
VP PROJECT DELIVERY
SHAWNEE ENERGY CENTER LLC
101 W 6TH ST STE 608
AUSTIN TX 78701-2935

Re: Electric Generating Units Air Quality Standard Permit
(Effective 5/16/2007)
Standard Permit Registration Number: 124811
Standard Permit Expiration Date: December 3, 2024
Shawnee Energy Center, LLC
Shawnee Energy Center
Abbott, Hill County
Regulated Entity Number: RN107817983
Customer Reference Number: CN604698092

Dear Mr. Odonovan:

This is in response to your Form PI-1S (Air Quality Standard Permit for Electric Generating Units) regarding the proposed construction to be located at the southwest corner of the intersection of County Road 3160 and County Road 3165, near Abbott, Hill County. We understand that this registration is for emissions associated with the construction and operation of four gas-fired simple cycle turbine electric generating units and ancillary equipment.

After evaluation of the information you submitted, the Texas Commission on Environmental Quality (TCEQ) has determined that your proposed emissions are authorized by this standard permit pursuant to Title 30 Texas Administrative Code § 116.602 (30 TAC § 116.602) if constructed and operated as represented in your registration. This standard permit was issued under the Texas Clean Air Act (TCAA) § 382.011, which authorizes the commission to control the quality of the state's air; TCAA § 381.023, which authorizes the commission to issue orders necessary to carry out the policy and purposes of the TCAA; and § 382.05195, which authorizes the commission to issue standard permits. Authorized emissions are listed on the attached table.

You are reminded that 30 TAC § 116.615 requires that any construction or change authorized by this standard permit be administratively incorporated into the affected facilities' permit(s) at the next amendment or renewal.

You are also reminded that these facilities must be in compliance with all rules and regulations of the TCEQ and of the U.S. Environmental Protection Agency at all times.

Mr. Neil Odonovan

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If you need further information or have any questions, please contact Mr. Joe Janecka at (512) 239-1353 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.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

A handwritten signature in black ink that reads "Kate Stinchcomb". The signature is written in a cursive, flowing style.

Kate Stinchcomb, Manager

Combustion / Coatings New Source Review Permits Section

Air Permits Division

Texas Commission on Environmental Quality

cc: Air Section Manager, Region 9 - Waco

Project Number: 220652

Standard Permit Maximum Emission Rates Table
Permit Number 124811

The facilities and emissions included in this table have been represented and reviewed as the maximum emissions authorized by this standard permit registration.

MAXIMUM EMISSION RATES TABLE (MERT)															
EPN	EPN Name	VOC		NO _x ¹		CO ¹		PM/PM ₁₀ / PM _{2.5}		SO ₂		NH ₃		H ₂ SO ₄	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
1	Combustion Turbine 1 Normal Operations	3.39	15.23	32.48	248	12.49	248	12.66	21.02	1.6	2.66	29.82	49.5	0.12	0.20
	Combustion Turbine 1 MSS	63.36		82.94		633.60									
2	Combustion Turbine 2 Normal Operations	3.39	15.23	32.48		12.49		12.66	21.02	1.6	2.66	29.82	49.5	0.12	0.20
	Combustion Turbine 2 MSS	63.36		82.94		633.60									
3	Combustion Turbine 3 Normal Operations	3.39	15.23	32.48		12.49		12.66	21.02	1.6	2.66	29.82	49.5	0.12	0.20
	Combustion Turbine 3 MSS	63.36		82.94		633.60									
4	Combustion Turbine 4 Normal Operations	3.39	15.23	32.48		12.49		12.66	21.02	1.6	2.66	29.82	49.5	0.12	0.20
	Combustion Turbine 4 MSS	63.36		82.94		633.60									
5	Dew Point Heater 1	0.01	0.02	0.09	0.15	0.17	0.28	0.01	0.02	<0.01	<0.01	--	--	--	--
6	Dew Point Heater 2	0.01	0.02	0.09	0.15	0.17	0.28	0.01	0.02	<0.01	<0.01	--	--	--	--
NH3-FUG	Fugitive emissions – Ammonia	--	--	--	--	--	--	--	--	--	--	0.15	0.66	--	--
MSS FUG	MSS Fugitives	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
LOV_1	Lube Oil Vent 1	0.09	0.39	--	--	--	--	0.09	0.39	--	--	--	--	--	--
LOV_2	Lube Oil Vent 2	0.09	0.39	--	--	--	--	0.09	0.39	--	--	--	--	--	--
LOV_3	Lube Oil Vent 3	0.09	0.39	--	--	--	--	0.09	0.39	--	--	--	--	--	--
LOV_4	Lube Oil Vent 4	0.09	0.39	--	--	--	--	0.09	0.39	--	--	--	--	--	--
TOTAL EMISSIONS (TPY):			61.33		248.30		248.56		85.68		10.66		198.66		0.80
MAXIMUM OPERATING SCHEDULE:		Hours/Day		Days/Week		Weeks/Year		Hours/Year							

1: Annual CO and NO_x emissions for the four turbines are capped at 248 tpy.

VOC - volatile organic compounds

NO_x - total oxides of nitrogen
CO - carbon monoxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5} as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
SO₂ - sulfur dioxide
NH₃ - ammonia
H₂SO₄ - sulfuric acid mist

Date: December 3, 2014