

Permit by Rule (PBR) Registration Technical Review

Company:	Microsoft Corporation	Registration No.:	168779
Nearest City:	San Antonio	Project No.:	394203
County:	Bexar	Project Type:	Revision
Project Reviewer:	Hung Chau	Regulated Entity No.:	RN111356929
Unit Name:	Sat14	Customer Reference No.:	CN603222902
PBR No(s).:	106.472, 106.511	Project Received Date:	June 12, 2025
Physical Location:	3545 Wiseman Blvd		

Project Overview / Process Description

Microsoft Corporation owns and operates Sat14 in San Antonio, Bexar County, Texas. Microsoft requests to establish federally enforceable operational limits for each proposed emergency generator with grouped fuel limits and to update emission factors for engine calculations. Microsoft proposes grouped fuel limits of (2,790) gal/yr for Admin Gen Group (Admin Gens 1-2), (210,700) gal/yr for 3.1MW Gen Group (Gens 1-20), and (82,380) gal/yr for 3.9MW Gen Group (Gens 21-26) to remain a synthetic minor facility with NOx emissions at less than 50 tons per year. There are no other active air authorizations at the site.

The SAT14 Data Center facility consists of the following equipment permitted. Two Caterpillar Generators (Admin Gen 1 and 2-400kW), twenty (20) Caterpillar generators (GEN1-20---3100kW), six Caterpillar generators (GEN21-26—3900kW), two (2) 1,650-gallon diesel sub-base fuel tanks, twenty (20) identical 11,205-gallon diesel sub-base fuel tanks, and (6) identical 12,000-gallon diesel sub-base fuel tanks to support the generator operations.

There are no changes to the existing storage tanks on site. This project only authorizes revised fuel limits detailed below and updated emission factors.

Operational Limits Revised by fuel limits:

Admin Gen Group (EPNs ADMINGEN1-ADMINGEN2); Cat Model C13- 2790 gal/yr

3.1MW Gen Group (EPNs GEN1-GEN20); Cat Model C175-16- 210,700 gal/yr

3.9MW Gen Group (EPNs GEN21-GEN26); Cat Model C175-20- 82,380 gal/yr

Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 770734 / 582EA000672181
Is this registration certified?	Yes
Is planned MSS included in the registration?	No
Are there affected NSR or Title V authorizations for the project?	No
Are there any upstream or downstream affects associated with this registration?	No
Are associated upstream/downstream emissions either included in the registration OR within current permitted limits with no changes to underlying air authorizations for the applicable units regarding BACT, health and environmental impacts, or other representations.	NA
Are emissions for each PBR authorized facility less than the § 106.4(a)(1) limits?	Yes
Are total emissions from all sitewide PBR authorized facilities less than the § 106.4(a)(4) limits, OR has the site been subject to public notice requirements?	Yes, sitewide emissions are less than 106.4(a)(1) limits
Are there permit limits on using PBRs at the site?	No
Is the facility in compliance with all other applicable rules and regulations?	Yes
Does the registration include an appropriate PBR workbook, and has the workbook been verified?	No

Federal Applicability

Does this project trigger a PSD or Nonattainment review?	No
Does the Major NSR applicability analysis include all associated upstream and/or downstream emissions?	NA

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Are there any applicable standards under NSPS, NESHAP, or NESHAP for source categories (MACT)?

Yes

If Yes, list applicable subparts:

NSPS IIII, MACT ZZZZ

Permit by Rule Requirements - Compliance Demonstrations

PBR 106.472 Organic and Inorganic Liquid Loading and Unloading

Liquid loading or unloading equipment for railcars, tank trucks, or drums; storage containers, reservoirs, tanks; and change of service of material loaded, unloaded, or stored is permitted by rule, provided that no visible emissions result and the chemicals loaded, unloaded, or stored are limited to:

(1) the following list: asphalt, resins, soaps, lube oils, fuel oils, waxes, polymers, detergents, lube oil additives, kerosene, wax emulsions, vegetable oils, greases, animal fats, and **diesel fuels**;

Permit by Rule Requirements - Compliance Demonstrations

PBR 106.511 Portable and Emergency Engines and Turbines

Internal combustion engine and gas turbine driven compressors, electric generator sets, and water pumps, used only for portable, emergency, and/or standby services are permitted by rule, provided that the maximum annual operating hours shall not exceed 10% of the normal annual operating schedule (**Actual: 50 hours/year per engine**) of the primary equipment; and all electric motors. For purposes of this section, "standby" means to be used as a "substitute for" and not "in addition to" other equipment.

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance history report was reviewed on:

June 16, 2025

Site rating / classification: **Unclassified**

Company rating / classification:

0.00 / High

Has any action occurred on the basis of the compliance history or rating?

No

Operational Limits			
Generators	Total hr/yr	Total Fuel gal/yr	Units (MWh/yr)
Generator:400 ekW x 2 (Admin Gen Group (EPNs: Admin Generator 1-2))	200	2,790	40
Generators: 3100 ekW X 20 (3.1 MW Gen Group (EPNs: Gen1-20))	1000	210,700	3000
3.9MW Gen Group (EPNs: Gen21-26)	300	82,380	1050
TOTAL	1500	295,870	4090

Emission Summary

EPN / Emission Source	VOC		NOx		CO		PM		PM ₁₀		PM _{2.5}		SO ₂	
	lb/hr	tpy*	lb/hr	tpy*	lb/hr	tpy*	lb/hr	tpy*	lb/hr	tpy*	lb/hr	tpy*	lb/hr	tpy*
Revised Emissions														
ADMINGEN1/ Admin Generator 1	0.18	0.01	6.56	0.16	3.05	0.08	0.14	<0.01	0.14	<0.01	0.14	<0.01	0.01	<0.01
ADMINGEN2/ Admin Generator 2	0.18	0.01	6.56	0.16	3.05	0.08	0.14	<0.01	0.14	<0.01	0.14	<0.01	0.01	<0.01
GEN1/ Generator 1	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN2/ Generator 2	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN3/ Generator 3	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN4/ Generator 4	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN5/ Generator 5	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01

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GEN6/ Generator 6	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN7/ Generator 7	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN8/ Generator 8	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN9/ Generator 9	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN10/ Generator 10	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN11/ Generator 11	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN12/ Generator 12	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN13/ Generator 13	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN14/ Generator 14	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN15/ Generator 15	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN16/ Generator 16	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN17/ Generator 17	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN18/ Generator 18	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN19/ Generator 19	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN20/ Generator 20	0.83	0.02	69.85	1.75	7.41	0.19	0.37	0.01	0.37	0.01	0.37	0.01	0.05	<0.01
GEN21/ Generator 21	1.79	0.04	83.52	2.09	20.25	0.51	0.69	0.02	0.69	0.02	0.69	0.02	0.07	<0.01
GEN22/ Generator 22	1.79	0.04	83.52	2.09	20.25	0.51	0.69	0.02	0.69	0.02	0.69	0.02	0.07	<0.01
GEN23/ Generator 23	1.79	0.04	83.52	2.09	20.25	0.51	0.69	0.02	0.69	0.02	0.69	0.02	0.07	<0.01
GEN24/ Generator 24	1.79	0.04	83.52	2.09	20.25	0.51	0.69	0.02	0.69	0.02	0.69	0.02	0.07	<0.01
GEN25/ Generator 25	1.79	0.04	83.52	2.09	20.25	0.51	0.69	0.02	0.69	0.02	0.69	0.02	0.07	<0.01
GEN26/ Generator 26	1.79	0.04	83.52	2.09	20.25	0.51	0.69	0.02	0.69	0.02	0.69	0.02	0.07	<0.01
Existing/Unchanged Emissions.														
ADMINTANK1/ Admin Generator 1 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
ADMINTANK2/ Admin Generator 2 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK1/ Generator 1 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK2/ Generator 2 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK3/ Generator 3 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK4/ Generator 4 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK5/ Generator 5 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK6/ Generator 6 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK7/ Generator 7 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK8/ Generator 8 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK9/ Generator 9 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK10/ Generator 10 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-

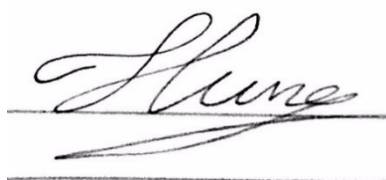
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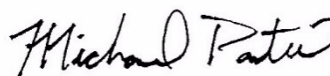
TANK11/ Generator 11 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK12/ Generator 12 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK13/ Generator 13 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK14/ Generator 14 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK15/ Generator 15 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK16 / Generator 16 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK17/ Generator 17 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK18/ Generator 18 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK19/ Generator 19 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK20/ Generator 20 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK21/ Generator 21 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK22/ Generator 22 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK23/ Generator 23 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK24/ Generator 24 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK25/ Generator 25 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TANK26/ Generator 26 Base Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EMISSIONS (TPY):	-	0.66	-	47.86	-	7.02	-	0.32	-	0.32	-	0.32	-	<0.01
MAXIMUM OPERATING SCHEDULE: Hours/Year														8,760

*Annual emissions are based on grouped fuel usage cap rate of 295,870 gal/yr.



7/02/2025
Date

Mr. Hung Chau
Permit Reviewer
Rule Registration Section



7/02/2025
Date

Michael Partee, Manager
Rule Registrations Section
Air Permits Division