

Permit by Rule (PBR) Registration Technical Review

Company:	Microsoft Corporation	Registration No.:	182686
Nearest City:	Castroville	Project No.:	403435
County:	Medina	Project Type:	Initial
Project Reviewer:	Brittany Williams	Regulated Entity No.:	RN111896825
Unit Name:	Microsoft Sat 8990 Data Center Project Site	Customer Reference No.:	CN603222902
PBR No(s).:	106.472, 106.511	Project Received Date:	January 13, 2026
Physical Location:	north of HWY 90, and south of county rd. 4516		

Project Overview / Process Description

Microsoft Corporation is constructing a greenfield data center in Medina County, Texas. Microsoft Corporation has submitted this certified initial registration to authorize emergency generators, fuel tanks, and associated sitewide emissions under rules 106.472 and 106.511.

Microsoft is installing two (2) 500 kW Caterpillar Generators and sixty (60) 3100 kW Caterpillar Generators in multiple phases for buildings SAT89 and SAT90. The engines will be authorized under PBR 106.511. To fuel the new engines, two (2) new sub-base fuel tanks (i.e., a fully integrated belly tank) at 2,000 gallons each and sixty (60) new sub-base fuel tanks at 11,205 gallons each are being constructed. The fuel storage tanks will utilize ultra-low sulfur diesel (ULSD) with a sulfur content of no more than 15 parts per million (ppm) or renewable diesel/hydrotreated vegetable oils with a maximum sulfur content of 15 ppm for operation. The tanks will be authorized under PBR 106.472.

The two 500 kW generators are Tier 3 certified, and the sixty 3100 kW generators are Tier 2 certified. All will be operated only as emergency generators. Operations will include running for emergencies, maintenance, start-up and shutdown. Facility emissions will be maintained within the limiting major source threshold of 100 tons per year of NOx through limiting the planned operations of each generator via grouped fuel limits.

Microsoft requests to establish federally enforceable operational limits for each proposed emergency generator through the use of grouped fuel limits. Microsoft proposes grouped fuel limits of (3,403) gal/yr for Admin Gen Group (Admin Gens 1-2) and (594,174) gal/yr for the 3.1MW Gen Group (Gens 1-60). See Table 1 below.

Table 1.

Generator Group Fuel Limits

Generator Group	Group Fuel Limits (gallons/year)
Admin Gen Group: 500 kW x 2 units	3,403
3.1MW Gen Group: 3100 kW x 60 units	594,174

Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 805166 / 582EA000706994
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.	N/A
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, less than the § 106.4(a)(4) limits.
Are there permit limits on using PBRs at the site?	No

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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?	N/A
Notes:	
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?	N/A
Are there any applicable standards under NSPS, NESHAP, or NESHAP for source categories (MACT)?	Yes
If Yes, list applicable subparts:	NSPS IIII, MACT ZZZZ
Notes:	

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**;
- (2) water or wastewater;
- (3) aqueous salt solutions;
- (4) aqueous caustic solutions, except ammonia solutions;
- (5) inorganic acids except oleum, hydrofluoric, and hydrochloric acids;
- (6) aqueous ammonia solutions if vented through a water scrubber;
- (7) hydrochloric acid if vented through a water scrubber;
- (8) acetic acid if vented through a water scrubber;
- (9) organic liquids having an initial boiling point of 300 degrees Fahrenheit or greater. Facilities loading, unloading, or storing butyric acid, isobutyric acid, methacrylic acid, mercaptans, croton oil, 2-methyl styrene, or any other compound with an initial boiling point of 300 degrees Fahrenheit or greater listed in 40 Code of Federal Regulations 261, Appendix VIII shall be located at least 500 feet from any recreational area or residence or other structure not occupied or used solely by the owner of the facility or the owner of the property upon which the facility is located.

Notes:

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 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.

Notes:

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance history report was reviewed on:		January 14, 2026
Site rating / classification:	N/A	Company rating / classification: 0.00 / High
Has any action occurred on the basis of the compliance history or rating?		No

Emission Summary

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EPN / Emission Source	VOC		NOx		CO		PM/ PM ₁₀ / PM _{2.5}		SO ₂		CH ₂ O		Other	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
SAT89ADMIN / SAT89 Admin Generator	0.10	<0.01	8.17	0.19	2.18	0.05	0.17	<0.01	0.01	<0.01	<0.01	<0.01	-	-
SAT89C1CE1 / SAT89-COLO1-CE1-GPC01	0.83	0.02	69.85	1.64	7.41	0.17	0.37	0.01	0.05	<0.01	<0.01	<0.01	-	-
SAT89C1CE2 / SAT89-COLO1-CE2-GPC01	0.83	0.02	69.85	1.64	7.41	0.17	0.37	0.01	0.05	<0.01	<0.01	<0.01	-	-
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SAT89C2CE1 / SAT89-COLO2-CE1-GPC01	0.83	0.02	69.85	1.64	7.41	0.17	0.37	0.01	0.05	<0.01	<0.01	<0.01	-	-
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SAT90C5CE1 / SAT90-COLO5-CE1-GPC01	0.83	0.02	69.85	1.64	7.41	0.17	0.37	0.01	0.05	<0.01	<0.01	<0.01	-	-
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89ADMINTNK / SAT89 Admin Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
89TANK1 - 89TANK30 / SAT89 Tanks ^{[1][2]}	0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-
90ADMINTNK / SAT90 Admin Tank	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-
90TANK1 - 90TANK30 / SAT90 Tanks ^{[1][2]}	0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EMISSIONS (TPY):		1.82		98.78		10.30		0.60		<0.01		<0.01		-
MAXIMUM OPERATING SCHEDULE:			Hours/Day			Days/Week			Weeks/Year			Hours/Year		
												8,760		

Note: Formaldehyde included in VOCs.

[1] Hourly Emissions for tanks are per tank in group.

[2] Annual Emissions for tanks are per tank in group.

Total Annual Emissions for all generators are based on grouped aggregate fuel limits for planned operations represented in Table 1 above.

Bruce Williams

02/03/2026

Michael Pater

02/09/2026

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Ms. Brittiny Williams
Permit Reviewer
Rule Registration Section

Date

Michael Partee, Manager
Rule Registrations Section
Air Permits Division

Date