

Permit by Rule (PBR) Registration Technical Review

Company:	Microsoft Corporation	Registration No.:	173546
Nearest City:	San Antonio	Project No.:	376081
County:	Bexar	Project Type:	Revision
Project Reviewer:	John Ma	Regulated Entity No.:	RN111349833
Unit Name:	Microsoft Sat15	Customer Reference No.:	CN603222902
PBR No(s).:	106.472, 106.511	Project Received Date:	July 2, 2024
Physical Location:	3555 Westover Link		

Project Overview / Process Description

Microsoft Corporation is constructing a greenfield data center located in Bexar County, Texas. Microsoft Corporation has submitted this certified revision to authorize new emergency generators and fuel tanks, and revise sitewide emissions under 106.472 and 106.511.

Microsoft is installing and additional sixty-three (63) new generators, comprised of generators no larger than (1) 3900ekW, sixty (60) 3140 ekW, and two (2) 1000 ekW diesel-fired Caterpillar generators. The engines will be authorized under PBR 106.511. To fuel the new engines, sixty-three (63) new sub-base fuel tanks (i.e., a fully integrated belly tank) with usable capacities ranging from 2,000 gallons to about 12,000 gallons, will be installed. The fuel storage tanks will store ultra-low sulfur diesel (ULSD), renewable diesel, or a blend with a sulfur content of no more than 15 parts per million (ppm) for the operation of the new generators. The tanks will be authorized under PBR 106.472.

All the new generators will be Tier 2 certified. They will be operated only as emergency generators. Operations will include running for emergencies maintenance and testing, and standby service. Facility emissions will not exceed major source threshold of 100 tons per year of NOx. Company has certified that construction has commenced on July 20, 2024, and site operation will commence on August 1, 2024.

Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 711748 / 582EA000616332
Is this registration certified?	Yes
Is planned MSS included in the registration?	Yes
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? Sitewide emissions meet 106.4.	Yes
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?	NA
Notes: Site will meet the requirements of Chapter 117. Company has certified that construction has commenced on July 20, 2024, and site operation will commence on August 1, 2024.	

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

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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) diesel fuels;
- (2-9) n/a

PBR 106.511 Portable and Emergency Engines and Turbines

The backup electric generator shall not exceed 10% of the normal annual operating schedule of the primary equipment; maximum operational schedule of 876 hours per year.

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance history report was reviewed on:			July 23, 2024
Site rating / classification:	Unclassified	Company rating / classification:	0.00 / High
Has any action occurred on the basis of the compliance history or rating?			No
Did the Regional Office provide site approval and confirm distances?			NA

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
New Emissions														
16ADMINGEN1 / SAT16 Admin Generator 1 ^{[1][2]}	0.11	<0.01	21.06	0.34	0.85	0.01	0.14	<0.01	0.14	<0.01	0.14	<0.01	0.02	<0.01
16GEN1-16GEN30 / SAT16 Generator 1-30 ^{[1][2]}	0.83	0.40	69.85	33.80	7.41	3.59	0.38	0.18	0.38	0.18	0.38	0.18	0.05	0.03
17ADMINGEN1 / SAT17 Admin Generator 1 ^{[1][2]}	0.11	<0.01	21.06	0.34	0.85	0.01	0.14	<0.01	0.14	<0.01	0.14	<0.01	0.02	<0.01
17GEN1-17GEN30 / SAT17 Generator 1-30 ^{[1][2]}	0.83	0.40	69.85	33.80	7.41	3.59	0.38	0.18	0.38	0.18	0.38	0.18	0.05	0.03
16ADMINTANK1 / SAT16 Admin Tank ^{[3][4]}	<0.01	<0.01												
16TANK1-16TANK30 ^{[3][4]}	0.01	0.04												
17ADMINTANK1 / SAT17 Admin Tank ^{[3][4]}	<0.01	<0.01												
17TANK1-17TANK30 ^{[3][4]}	0.01	0.04												
Updated Emissions														
ADMINGEN1 / SAT15 Admin Generator 1 ^{[1][2]}	0.18	<0.01	6.56	0.11	3.05	0.05	0.14	<0.01	0.14	<0.01	0.14	<0.01	<0.01	<0.01
GEN1-GEN20 / Generator 1-20 ^{[1][2]}	0.83	0.27	69.85	22.53	7.41	2.39	0.37	0.12	0.37	0.12	0.37	0.12	0.05	0.02
GEN21-GEN26 / Generator 21-26 ^{[1][2]}	1.79	0.17	83.52	8.08	20.25	1.96	0.69	0.07	0.69	0.07	0.69	0.07	0.07	0.01
15ADMINTANK1 / SAT15 Admin Tank ^{[3][4]}	<0.01	<0.01												
15TANK1-15TANK20 ^{[3][4]}	0.01	0.03												
15TANK21-15TANK25 ^{[3][4]}	<0.01	0.01												

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TOTAL EMISSIONS (TPY):		1.38		99.00		11.60		0.56		0.56		0.56		0.09
MAXIMUM OPERATING SCHEDULE:	Hours/Day	24	Days/Week	7	Weeks/Year	52	Hours/Year	8,760						

Note: Formaldehyde included in VOCs.

[1] Hourly Emissions for generators are per generator in group.

[2] Total Annual Emissions for all generators are based on each generator being restricted to 32 hours per year for planned operations.

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

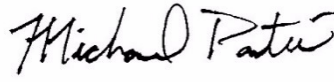
[4] Total Annual Emissions for diesel tanks are total annual emissions for all tanks in the groups.



July 26, 2024

Mr. John Ma
Permit Reviewer
Rule Registration Section

Date



July 29, 2024

Michael Partee, Manager
Rule Registrations Section
Air Permits Division
Section Manager

Date