

Permit by Rule (PBR) Registration Technical Review

Company: Nexus Hubbard Power, LLC
Nearest City: Hubbard
County: Hill
Project Reviewer: Clare Hubbell
Unit Name: Nexus Data Center Hubbard
PBR No(s): 106.472, 106.511
Physical Location: 880 State Highway 171

Registration No.: 180353
Project No.: 393802
Project Type: Initial
Regulated Entity No.: RN112221833
Customer Reference No.: CN606391142
Project Received Date: May 30, 2025

Project Overview / Process Description

Nexus Hubbard Power, LLC (Nexus) is proposing to own and operate diesel-fueled emergency generators and associated diesel storage tanks for the generation of onsite electricity in support of data center operations located in Hubbard, Hill County. The primary power generators will be authorized under EGU Standard Permit No. 180320. The company confirms that a Title V permit application will be submitted for the site.

This registration is to authorize emergency generators and associated storage tanks under rules 106.511 and 106.472. Nexus is proposing 47 generators, 4 diesel storage tanks, and 4 aqueous urea storage tanks. Aqueous urea has negligible vapor pressure, so no emissions are represented for those tanks.

The proposed new generators will be used to provide 152.75MW (47 x 3.25MW) of emergency power to support data center operations in the event of on-site power failure. Four diesel storage tanks will supply fuel to the proposed emergency generators. Each diesel storage tank will have a maximum throughput of 6,560 bbl/year.

In parallel with this submittal, a registration for certification of 612.93MW of baseload natural gas power generation at the same location in Hubbard, Texas, has been submitted under the Standard Permit for Electric Generating Units (EGUs). The EGUs are the main power sources for the data center, while the engines in this registration are only for emergency use in case the main EGUs are down. The emissions from all sources authorized under PBR will not exceed the limits set under 30 TAC 106.4.

Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 768692 / 582EA000670131 Surcharge fee: 768693 / 582EA000670131
Is this registration certified?	Yes
Is planned MSS included in the registration?	No
Are there affected NSR or Title V authorizations for the project? The company confirms that a Title V permit application will be submitted for the site.	
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? Less than 106.4(a)(4) limits.	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

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

Permit by Rule (PBR) Registration

Registration No. 180353
Page 2

Project No. 393802

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**;

(4) **aqueous caustic solutions**, except ammonia solutions;

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: 100 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 6, 2025**

Site rating / classification: **N/A** Company rating / classification: **N/A**

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		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
EGEN1 / NHP-EGEN1	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN2 / NHP-EGEN2	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN3 / NHP-EGEN3	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN4 / NHP-EGEN4	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN5 / NHP-EGEN5	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN6 / NHP-EGEN6	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN7 / NHP-EGEN7	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN8 / NHP-EGEN8	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN9 / NHP-EGEN9	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN10 / NHP-EGEN10	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN11 / NHP-EGEN11	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN12 / NHP-EGEN12	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN13 / NHP-EGEN13	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN14 / NHP-EGEN14	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN15 / NHP-EGEN15	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN16 / NHP-EGEN16	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN17 / NHP-EGEN17	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN18 / NHP-EGEN18	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN19 / NHP-EGEN19	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		

Permit by Rule (PBR) Registration

Registration No. 180353

Project No. 393802

Page 3

EGEN20 / NHP-EGEN20	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN21 / NHP-EGEN21	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN22 / NHP-EGEN22	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN23 / NHP-EGEN23	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN24 / NHP-EGEN24	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN25 / NHP-EGEN25	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN26 / NHP-EGEN26	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN27 / NHP-EGEN27	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN28 / NHP-EGEN28	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN29 / NHP-EGEN29	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN30 / NHP-EGEN30	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN31 / NHP-EGEN31	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN32 / NHP-EGEN32	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN33 / NHP-EGEN33	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN34 / NHP-EGEN34	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN35 / NHP-EGEN35	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN36 / NHP-EGEN36	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN37 / NHP-EGEN37	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN38 / NHP-EGEN38	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN39 / NHP-EGEN39	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN40 / NHP-EGEN40	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN41 / NHP-EGEN41	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN42 / NHP-EGEN42	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN43 / NHP-EGEN43	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN44 / NHP-EGEN44	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN45 / NHP-EGEN45	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN46 / NHP-EGEN46	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
EGEN47 / NHP-EGEN47	1.33	0.07	4.81	0.24	4.30	0.22	0.23	0.01	0.03	<0.01	0.13	0.01		
NHP-DT1 / Diesel Storage Tank	0.20	0.01												
NHP-DT2 / Diesel Storage Tank	0.20	0.01												
NHP-DT3 / Diesel Storage Tank	0.20	0.01												
NHP-DT4 / Diesel Storage Tank	0.20	0.01												
TOTAL EMISSIONS (TPY):		3.33		11.30		10.34		0.54		0.06		0.47		
MAXIMUM OPERATING SCHEDULE: Hours/Year											100 (per engine)			
											8,760 (storage tanks)			

Note: Formaldehyde is not included in VOC totals. Diesel storage tank hourly emissions represent a maximum rate, and annual emissions are based on 1.82 turnovers per year per tank.

Clare Hubbell

June 13, 2025

Date

Ms. Clare Hubbell
Permit Reviewer
Rule Registrations Section

Michael Partee

June 16, 2025

Date

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

Permit by Rule (PBR) Registration

Registration No. 180353
Page 4

Project No. 393802