

# Electric Generating Unit Standard Permit Technical Review

Company	Galaxy Helios I LLC	Registration Number	179090
City	Afton	Project Number	388603
County	Dickens	Regulated Entity Number	RN111537775
Project Type	Standard Permit Application	Customer Reference Number	CN606350171
Project Reviewer	Camryn Appert	Project Received Date	February 6, 2025
Site Name	Galaxy Helios 1		

Project Description
<p>Galaxy Helios I LLC owns and operates the Helios Datacenter located in Dickens County, Texas.</p> <p>The purpose of this application is to authorize 120 CAT 3516E Diesel Generators that will be used to produce approximately 251 MW of electrical power during power outages. The emergency generators will be powered by diesel fuel. The emergency generators are certified as meeting the U.S. EPA Tier 2 emission standards. Each engine will be equipped with a respective individual belly tank for storage of fuel which will be authorized under claimed PBR 106.472.</p> <p>The normal operation of the Helios Datacenter emergency generators will be for periodic testing only. Potential to emit is based on 11,918 hours for all engines. If local power is interrupted, the emergency generators will power the Helios Datacenter such that there is no interruption in services to customers; however, this usage of the emergency generators is not considered "normal operation" as it only occurs because of an emergency event (i.e., a power outage). As such, the intended "normal" operation of periodic testing and exercising events are the basis of the operating hours used in the Air Standard Permit.</p> <p>The engines will comply with applicable requirements of New Source Performance Standards (NSPS) as listed in 40 CFR Part 60 Subpart A and IIII.</p>

Compliance History Evaluation	
A compliance history report was reviewed on:	February 6, 2025
Site rating & classification:	N/A
Company rating & classification:	N/A

General Rules Check	Comments
Does the project trigger PSD or NA review?	* No
Is the facility taking an operational limit to meet the Standard Permit? If yes, describe how this project is not circumventing major NSR permitting. (30 TAC §116.110)	* Yes, Helios is certifying that the combined hours of operation for all engines will not exceed 11,918 hours per year. Additionally, 103 engines will not exceed 75% load, 11 engines will not exceed 50% load, 2 engines will not exceed 25% load, and 4 engines will not exceed 10% load.

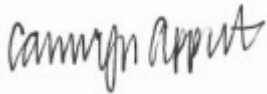
Standard Permit Rules Check	Comments
Type of unit being authorized	*Engine(s)
Fees	* ≥ 1 MW \$900
Combined Heat and Power (if taking credit)	N/A – Heat is not being recovered for other processes.
Fuel	* Liquid fuel/liquid renewable fuel (no waste oils or solvents, <0.05% by weight sulfur)
NO <sub>x</sub> emission limitation (in lb/MWh)	* ≤10 MW per unit * West Texas * ≤300 hrs/yr – 21 lb/MW/hr

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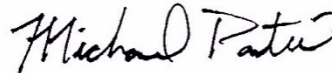
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Maintenance, Startup, and Shutdown	Maintenance activities will be authorized either by PBR or De Minimis. Emissions from planned startup and shutdown will be authorized by this permit. Combustion emission factors used when developing the standard permit included enough conservatism to account for incidental increases that could occur during startup and shutdown.
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March 6, 2025

Project Reviewer  
Camryn Appert



March 7, 2025

Section Manager  
Michael Partee