Facility Name:	Neurocrine Biosciences, Inc.
Equipment Type:	34H – Emergency Diesel Engine
Application #:	APCD2025-APP-008601
SITE ID#:	APCD2022-SITE-04033
Equipment/Facility Address:	6045 Edgewood Bend Court San Diego, CA 92130
Facility Contact:	Abe Cuevas
	Director of Facilities
	acuevas@neurocrine.com

3/25/2025

Permit Engineer:

X Victoria Burns

Victoria Burns Air Pollution Control Engineer Signed by: Victoria Burns

Senior Engineer:

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Joseph Herzig Senior Air Pollution Control Engineer

1.0 Background

- 1.1 Type of Application: New installation of a stationary emergency generator engine.
- **1.2 Permit History:** This is the initial application for this equipment.
- **1.3 Facility Description:** This site is a pharmaceutical R&D facility. This is the only open application at the facility. There is another emergency engine under APCD2024-PTO-004891, as well as 8 medium boiler registrations.
- **1.4 Other Background Info:** No NOVs, hearing board actions, permit denials, legal settlements, or nuisance complaints. Not a Title V facility.

2.0 Process Description 2.1 Equipment Description.

Emergency Diesel Engine: Manufacturer: Kohler, Model: KD27V12, S/N TBD, Maximum Rated Horsepower: 1494 bhp, Model Year: 2024, EPA Certification: Tier 2, Engine Family: RLHAL45.0ESP, Emissions Controls: Johnson Matthey S-DPF with DOC, Model: NON-CARB-VERIFIED JM-SDPF-7-H-CS-BITO-16/16-RT, Driving a KD1000 1000-kW emergency electrical generator. Testing and Maintenance Limits: 18 hours per day and 50 hours per calendar year.

2.2 Process Description.

This is a new install of a diesel emergency engine.

2.3 Emissions Controls.

This is a Tier 2 certified diesel engine with an aftermarket Johnson Matthey S-DPF, which is non-CARB-verified. It has an oxidation catalyst in line with a wall-flow ceramic filter to reduce CO and HC as well as PM. Spec sheet gives: 85% PM reduction, 80% CO reduction, 70% HC Reduction based on Kohler-provided engine performance data.

2.4 Attachments.

Engine and DPF manufacturer specification sheets.

3.0 Emissions

3.1 Emissions estimate summary. Estimated emissions from the process are shown below.

Compound	Emission Factor	nission Hourly actor Emissions En		Annual F	Emissions
	g/bhp-hr	lbs/hr	lbs/day	tons/year	lbs/yr
NOx	4.04	13.29	239.27	0.33	664.64
СО	0.12	0.39	7.08	0.01	19.66
NMHC	0.09	0.30	5.44	0.01	15.11
PM	0.0101	0.03	0.60	0.001	1.66
SOx		0.01500	0.26992	0.00037	0.75

 Table 1: Estimated PTE for Criteria Pollutants for Single Engine

3.2 Estimated Emissions Assumptions.

- Table 1 evaluates the emission unit at **18** hours per day and a total of **50** hours per year, assuming full load operations
- Estimated emissions are calculated for maintenance and testing operations. Emergency use is not counted towards operation limits.
- 15 ppmw sulfur fuel
- Emission factors were EPA-certified emission factors; Standard toxics emission factors for diesel engines.
- 85% control efficiency from DPF included in PM emission factor
- 80% control efficiency from DOC included in CO emission factor
- 70% control efficiency from DOC included in NMHC emission factor
- Expected actual emissions same as PTE.
- Other standard assumptions as stated in calculation sheets

3.3 Emissions Calculations.

Calculations were performed using the attached spreadsheets using standard calculation methods.

3.4 Attachments.

Emission Calculations.

4.0 Applicable Rules

4.1 District Prohibitory Rules

Emergency diesel engines at non-major sources are subject to the following District prohibitory rules: 50, 51, 53, 62 and 69.4.1. The proposed engine is expected to comply with all applicable requirements as shown in the table on the following page with standard permit conditions for this equipment type.

	Table 2: Prohibitory Rule Discussion				
Applicable Section	Requirement	Engine Complies?	Explanation	Condition	
Rule 50	Visible Emissions not to exceed 20% opacity or Ringelmann 1 for more than 3 minutes in a 60 minute period	Yes	Compliance with this requirement is achieved through the use of an EPA certified engine, and permit conditions will specify this requirement.	C28413	
Rule 51	Cannot cause or contribute to a	Ves	Due to the intermittent operation of an emergency engine that meets all emission requirements, it is anticipated that this will not cause a public nuisance. Permit conditions will prohibit this engine from causing a public nuisance	C28414	
Rule 53	Emissions of sulfur compounds calculated as SO2 on a dry basis shall not exceed 0.05 % by volume on a dry basis	Yes	Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which will ensure compliance with this requirement	C28412	
Rule 62	Sulfur content of liquid fuel shall not exceed 0.5 % sulfur by weight.	Yes	Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which will ensure compliance with this requirement.	C28412	
Rule 69.4.1					
69 4 1(d)(1)(ii)(F)	Emission standards for NOx and CO emissions. For a new or replacement certified diesel engine, NOx emissions shall not exceed: 3.5 g/bhp-hr if 50≤bhp<100; 3.0 g/bhp-hr if 100≤bhp<175; 3.0 g/bhp-hr if 175≤bhp<750; 4.8 g/bhp-hr if bhp≥750. For a new or replacement certified diesel engine, CO emissions shall not exceed: 3.7 g/bhp-hr if	Ves	Use of an EPA certified tier 3 engine (tier 2 for engines with a rated power in excess of 750 bhp) ensures that NOx and CO emissions comply with this requirement. This engine is a >750 bhp Tier 2 engine with an EPA certified NOx emission factor of 4.0 g/bhp-hr and CO emission factor of 0.31 g/bhp-hr (uncontrolled); therefore, it complies with this requirement	NA	

	50≤bhp<100; 3.7 g/bhp-hr if 100≤bhp<175; 2.6 g/bhp-hr if 175 <bhp<750: 2.6="" bhp-hr="" g="" if<="" th=""><th></th><th></th><th></th></bhp<750:>			
	bhp≥750.			
69 4 1(d)(2)	Engines operated on diesel fuel shall use only California Diesel Fuel	Yes	Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which will ensure compliance with this requirement	C28412
69 <i>A</i> 1(a)(3)	All engines must be equipped with a non-resettable totalizing fuel or hour meter which shall be replaced in accordance with subsection (q)(7) of this rule	Ves	Permit conditions will require installation of a non-resettable hour meter and specify the requirements for replacement	C28419
07.4.1(c)(3)	The owner or operator must conduct periodic maintenance on the engine, according to engine/control equipment manufacturer's instructions or other written procedure, at least		Annual maintenance of engine according to written procedure will be required by permit	620417
69.4.1(f)(2)	once each calendar year.	Yes	conditions.	C43433
	Specifies engine information that		Manufacturer and model number, brake horsepower rating, combustion method and fuel type are contained in the permit application. Documentation of CARB diesel fuel certification and manual of recommended maintenance will be specified in permit	
69.4.1(g)(1)	must be maintained on-site.	Yes	conditions.	C45251
	Requires keeping an operating log containing dates and times and purpose of each period of engine operation, cumulative operation of engine for each calendar year and maintenance records including dates maintenance is performed.		Compliance with the applicable provisions is expected and these requirements are specified in permit conditions. Section 93115.6(a)(1)- At-School and Near School Provisions does not apply if the engine emits no more than 0.01 g/bhp-hr of diesel PM via a pathway found in 93115.13(f). The engine demonstrates compliance with the 0.01 g/bhp-hr emission standard via 93115 13(f)(2)- it uses an 85	
69.4.1(g)(2)	must record the time of day when	Yes	percent PM emission reduction control strategy	C46473

	the engine is operated for testing		in combination with a certified CI engine that	
	and maintenance. Specific records		meets 0.15 g/bhp-hr PM emission standard.	
	for internal, external, and partial		(EPA-certified engine PM emission factor is	
	external power outages is required.		0.07 g/bhp-hr).	
			The applicant has claimed a commissioning	
	Requires records of the dates and		period is needed. However, the applicant is not	
	times when fuel is being		requesting a separate allotment for initial	
	combusted and cumulative		commissioning. This commissioning, as	
	operating time if claiming a		specified by the applicant does not include	
69 4 1 (σ)(6)	commissioning exemption	NA	running the engine without the DPF	NA
07.4.1(5)(0)	commissioning exemption.	1112	Tunning the engine without the DTT.	1 12 1
	Requires notification to APCD		Compliance with this provision is expected and	
	within 10 calendar days of		this requirement is specified in permit	
$69.4.1(\sigma)(7)$	replacing an hour meter	Ves	conditions	C28419
07.4.1(g)(7)	Requires specified records to be	105		020117
	maintained on site for at least		Compliance with this merician is expected and	
	maintained on-site for at least		Compliance with this provision is expected and	
	three years and made available to		this requirement is specified in permit	~
69.4.1(g)(9)	the District upon request.	Yes	conditions.	C43432
	Requires periodic source testing to			
	confirm compliance with		This subsection does not apply to certified	
69.4.1(i)(1)	applicable emission standards.	NA	emergency engines.	NA

4.2 New Source Review (NSR) Rule 20.1-20.4

This application is subject to District NSR rules. This site is considered a non-major stationary source, for each pollutant, as shown in the following table, and is therefore subject to District Rule 20.2. Calculation of emissions and determination of applicable requirements is performed in accordance with District Rule(s) 20.1 through 20.3.

|--|

	NOx	VOC	PM-10	PM-2.5	SOx	CO	Lead
Major Source Threshold (ton/year)	50	50	100	100	100	100	100
Major Source? (yes/no)	No	No	No	No	No	No	No
Major Modification Threshold (ton/year)	25	25	15	10	40	100	0.6
Major Modification at a Major Source?	No	No	No	No	No	No	No
Contemporaneous Calculations Performed?	No	No	No	No	No	No	No
Federal Major Stationary Source Threshold (ton/year)							
(Severe non-attainment status)	25	25	100	100	100	100	100
Federal Major Stationary Source?	No	No	No	No	No	No	No
Federal Major Modification Threshold (ton/year)							
(Severe non-attainment status)	25	25	15	10	40	100	0.6
Federal Major Modification?	No	No	No	No	No	No	No
Contemporaneous Net Calculations Performed	No	No	No	No	No	No	No
PSD Threshold (ton/year)	250	250	250		250	250	
PSD Modification Threshold (ton/year)	40	40	15		40	100	0.6
PSD New or Modification?	No	No	No		No	No	No

District Rule 20.2 contains requirements for Best Available Control Technology (BACT), Air Quality Impact Assessment (AQIA), Prevention of Significant Deterioration (PSD) and public notification.

Table 4: New Source Review Discussion				
Rule/Requirement	Requirement	Applicability	Discussion	Condition
	Rule 20.2 applies to		This is a non-major stationary source so Rule	
Applicability	stationary sources	Yes	20.2 applies.	NA
Type of				
application	New	Yes	NA	NA
F <i>d</i>	No exemptions apply to this			
Exemptions	equipment	NA	NA	NA
20.2(d)(1) – BACT				

			The potential to emit for	
	Installation of	Triggered,	this pollutant is 240	
	BACT is required if	see	lbs/day, which does	
	emissions of NOx	discussion	exceed this trigger level.	
BACT - NOx	exceed 10 lbs/day	below.	so BACT is required	NA
	CACCCU 10 105/ duy		The potential to emit for	1411
	T		this pollutant is 5.4	
	Installation of	Not	this point and is 5.4	
	BACT is required if	triggered no	avoad this trigger level	
DACT VOC	emissions of VOC	niggered, no	exceed this trigger level,	
DACI-VUC	exceed 10 lbs/day		The netential to entit for	INA
			the potential to emit for	
	Installation of	Nat	this pollutant is 0.6	
	BACT is required if		lbs/day, which does not	
	emissions of PM-10	triggered, no	exceed this trigger level,	
ВАСТ - РМ-10	exceed 10 lbs/day	permit limit	so BACT is not required.	NA
			The potential to emit for	
	Installation of		this pollutant is 0.3	
	BACT is required if	Not	lbs/day, which does not	
	emissions of SOx	triggered, no	exceed this trigger level,	
BACT - SOx	exceed 10 lbs/day	permit limit	so BACT is not required.	NA
20.2(d)(2) – AQIA				
			The increase in emissions	
			of this air contaminant	
	Required for		from this project does not	
	project emission		exceed any of these	
	increases in excess		levels, so no AQIA is	
	of 25 lbs/hr, 250		required when daily hours	Daily Limit in
	lbs/day or 40 ton/yr		for testing and	equipment
	of NOx calculated		maintenance are limited	description and
AQIA - NOx	as NO2	Not Triggered	to 18 hours/day.	conditions.
			The increase in emissions	
	Required for		of this air contaminant	
	project emission		from this project does not	
	increases in excess		exceed any of these	
	of 100 lbs/day or 15		levels, so no AQIA 1s	274
AQIA - PM-10	ton/yr of PM-10	Not Triggered	required.	NA
	Required for			
	project emission		The increase in emissions	
	increases in excess		of this air contaminant	
	01 23 105/nr, 230		from this project does not	
	of SOv coloriated		lovels so ma AOLA in	
	or SOX carculated	Not Triggored	required	NA
AQIA - SUX	as 502 Required for	ivot inggered	The increase in emissions	
	project emission		of this air contaminant	
	increases in excess		from this project does not	
	of 100 lbs/br 550		exceed any of these	
	lbs/day or 1000		levels so no AOIA is	
AOIA - CO	ton/vr of CO	Not Triggered	required.	NA

	Applicable to			
	have a significant		Emissions from this	
	impact on a class I		engine do not trigger PSD	
20.2(d)(3) - PSD	area	NA	requirements.	NA
	Requires 30 day			
	public notice if an			
	AQIA was required			
	or if increase in		AQIA was not required,	
	VOC emissions		and VOC emissions	
	from the project		increase from this project	
20.2(d)(4) - Public	exceed 250 lbs/day		does not exceed these	
Notice	or 40 ton/year	NA	levels.	NA

20.2(d)(1) – BACT

The PTE for NOx for the engine is 240 lbs./day, greater than the 10 lbs./day threshold for BACT. Therefore, a BACT analysis is required.

Alternatives that were considered include natural gas and propane engines and Tier 4f engines including SCR and DPF. Gas-fueled engines are not feasible as backup power for operations that must occur if natural gas lines are damaged in the event of an emergency like an earthquake. An engine of this size would also likely require SCR for emissions control, a method which is not cost effective as described below. The cost-effectiveness evaluation did not take into account the likely short periods of operation of this engine for maintenance. In many maintenance situations, the engine is operated at low loads and for approximately 30 minutes, some of which the SCR catalyst has not reached appropriate temperature for effectively controlling emissions.

NOx Analysis:

A tier 4 engine is the lowest emitting BACT option. Cost-effectiveness has previously been evaluated under applications APCD2021-APP-006831 and APCD2021-APP-006981, comparing incremental costs of a tier 2 vs. 4 engine, the results of which are summarized below. Note that this analysis is conservative and does not take into account the likely short periods of operation of this engine for maintenance as noted above which would lower the level of emission reductions achieved.

							Annual	
	Engine	Capital		Annual	Annual	Annual	Emission	
	Size	Cost Tier	Capital	Cost	Cost	Incremental	Reduction	Cost
Project	(bhp)	2	Cost Tier 4	Tier 2	Tier 4	Cost	(lb/yr)	Effectiveness
6831	2346	\$329,050	\$603,826	\$127,026	\$200,228	\$73,202	1,112	\$65.82
6981	2937	\$810,000	\$1,200,000	\$131,824	\$195,294	\$63,471	1,322	\$48.03

This analysis shows that a Tier 4f engine, the lowest-emitting category of diesel engines, is not cost-effective. The analysis is based on the assumption that the engine is allowed to run up to 50 hours per year for maintenance and testing, the maximum NOx emissions were calculated using the emission standards for a tier 2 and tier 4 engines. Capital costs were provided by the permit applicants which were annualized and added to expected maintenance and operating costs to determine an overall annual cost. NOx emissions and costs are expected to scale roughly linearly with engine size. Additionally, the cost for an add-on SCR to a tier 2 engine is expected to have a similar cost to the incremental cost of a tier 4 engine, so this analysis also demonstrates that use of an SCR would not be cost effective, in addition to being technologically infeasible because it would not function during most periods of testing and maintenance.

For this engine size, a tier 2 engine is the next lowest emitting option; therefore, it satisfies BACT for NOx.

20.2(d)(2) - AQIA

No AQIA limits were triggered by this engine, therefore no AQIA is required for this project.

4.3 Toxic New Source Review – Rule 1200

District Rule 1200 applies to any application that is part of a project which results in an emission increase of toxic air contaminants. The rule limits the increase in acute and chronic health hazard index (HHI) to no more than one from the project and limits the increase in cancer risk from the project to no more than one in one million if the engine is not equipped with Toxics BACT (T-BACT) or no more than ten in one million if the project meets T-BACT requirements. The following table contains an in-depth review of Rule 1200 requirements. If a refined HRA was required, the HRA report is attached.

Question	Answer	Discussion
		The application does result in an increase in toxic
Does the application		emissions of specific trace heavy metals and organics (as
result in an increase in		shown in emission calculations section). See HRA for
toxic emissions?	Yes	detail.
Do any special		
exemptions apply to		
this equipment?	No	No exemptions apply to this equipment
Are there any other		
applications that are		
part of the project?	No	NA.
What type of HRA was	Refined	
used?	HRA	NA.
Is the Project Equipped		
with T-BACT?	No	NA.
Cancer Risk increase		
(per one million)	<1	Meets standard of one.
Chronic HHI	<1	Meets standard of one.
Acute HHI	<1	Meets standard of one.
		Maintenance and testing (non-emergency operation) must
		be limited by permit conditions to 50 hours per calendar
Passes Rule 1200?	Yes	year.

Table 5: Rule 1200 Applicable Requirements and Discussion

Estimated Risk Levels:

Maximum Individual Cancer Risk (Resident)= 0.034 in one millionChronic Noncancer Health Hazard Index (Resident)= 9.20E-068-Hour Noncancer Health Hazard Index (Worker)= N/A*Acute Health Hazard Index (**PMI)= 0.13*8-Hour Non-Cancer Health Hazard Index is only applicable when calculating workerrisk**Point of Maximum Impact

The proposed application is for a stationary diesel emergency engine. The ARB Air Toxics Control Measure (ATCM) limits non-emergency operations to 50 hours per year.

Based on this analysis, the proposed engine complies with all applicable requirements of District Rule 1200.

4.4 AB3205

Requirements in the California Health and Safety Code in sections 42301.6 through 42301.9 (a.k.a. "AB3205 requirements") specify that prior to issuing an authority to construct for sources located within 1000 feet of a K-12 school, a 30-day public notification process must be conducted.

This project is located within 1000 feet of a school (Canyon Crest Academy: 5951 Village Center Loop Rd., San Diego, CA 92130), so public notice is required. A copy of the public notice is attached to the file and when the notice is issued, this evaluation and relevant attachments will be made available on the District's website for review. If any comments are received, they will be reviewed, considered and responded to prior to taking action on the permit, including revising any requirements as necessary in response to comments received.

4.5 State and Federal Regulations.

This engine is subject to both the State Air Toxic Control Measure for Stationary Engines (Stationary ATCM) and federal EPA issued National Emission Standards for Hazardous Air Pollutants (NESHAPs) and New Source Performance Standards (NSPS).

Applicable requirements of the Stationary ATCM include purchasing an engine certified to EPA standards and meeting specified emission standards of the rule, installing an hour meter, conducting maintenance according to a written plan, restrictions on operating the engine for purposes other than emergency use and limited (50 hours/year) use for maintenance and testing, and maintaining records to substantiate compliance with these requirements. This engine is expected to comply with all these requirements as described in the detailed analysis shown in the table following the discussion of NESHAP/NSPS requirements.

The NESHAP (subpart ZZZZ) requires that all new emergency engines comply with the rule by complying with the NSPS (subpart IIII). Applicable requirements of the NSPS include purchasing a certified engine, operating it as directed by the manufacturer, and maintaining records to substantiate compliance. These requirements closely mirror the ATCM requirements, except that the NSPS is somewhat less stringent in regards to allowable PM emission rate and contains some allowance for other types of operation not allowed by the ATCM. This means the more stringent ATCM requirements apply. A detailed analysis of NESHAP and NSPS requirements is shown in the following table.

Table 6a: State and Federal Requirement Discussion (Stationary ATCM)				
Applicable Section	Requirement	Engine Complies/Expect ed to Comply?	Explanation	Condition
Stationary ATCM				
93115.3	There are no exemptions that apply to this engine	NA	This engine is not one of the engines exempted from any applicable requirements	NA
93115.4	Definitions. Permit conditions ensure that the engine only operates in a manner allowed for engines designated as "Emergency Standby"	Yes	Permit conditions require that the engine operate only as an emergency engine	C40239
93115.5	Requires the use of CARB diesel as fuel.	Yes	Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which will ensure compliance with this requirement.	C28412
	Prohibits non-emergency operation of an emergency engine between 7:30 AM and 3:30 PM during school days if within 500 feet of school and during all school sponsored activities if located on school grounds. (a)			
93115.6(a)(1)	New Emergency Standby Diesel- Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards. (1) At-School and Near-School Provisions. No owner or operator	Yes	Engine is Tier 2 with an 85% PM emission reduction control strategy in combination with a certified CI engine that meets the 0.15 g/bhp-hr PM emission standard and emits 0.0101 g/bhp-hr PM controlled; therefore, this requirement does not apply.	N/A

	Requires that specified		The submitted application contained all	
	information is submitted to the		of the required contact/location	
	District as part of application		information, engine data, and emission	
93115.10(a)-(b)	package	Yes	information	NA
				C40721,
	Requires installation of a non-			C40721,
	resettable hour meter and for			C28419;
	engines with DPFs, a		Permit conditions require the	backpressure
	backpressure monitor that alerts		installation and use of a non-resettable	limit
	the operator when the		hour meter. Permit conditions require	
	backpressure limit of the engine		installation and use of a backpressure	
93115.10(d)	is approached	Yes	monitor between the engine and DPF.	
	Specifies that the owner or			
	operator must keep records and			
	prepare a monthly summary of			
	hours of operation and purpose			
	(emergency, maintenance and			
	testing, emission testing, start-up		Permit conditions require that these	
	testing, other, demand response)		records be kept and the summary	
93115.10(f)	of each period of operation	Yes	updated monthly	C45252
			Permit conditions require that	
			documentation of the CARB diesel	
	Requires records of CARB diesel		certification for all fuel used be	
93115.10(f)	fuel certification	Yes	maintained	C43434
	States that records must be kept			
	on-site for at least 24 months and		Compliance with this provision is	
	off-site for an additional 12		expected and this requirement is	
93115.10(f)	months (total 36 months)	Yes	specified in permit conditions.	C43432
	Allows the use of certification		The manufacturer's engine rating	
	data or other emission test data to		specific emission data as provided to the	
	demonstrate compliance with		EPA was used to determine compliance	
93115.13(a)	emission limits	Yes	and for emission calculations	NA

	For engines equipped with DPFs,		The engine is a certified Tier 2 engine	
	allows the use of an engine		that uses an 85% PM aftermarket DPF	
	certified to a PM-10 emission		and with certified PM emission below	
	level of no more than 0.15 g/bhp-		0.15 g/hp-hr.; therefore, (f)(2) may be	
	hr and an 85 percent PM emission		used to demonstrate compliance with	
	reduction control strategy in lieu		the 0.01 g/bhp-hr PM emission standard	
	of source testing (or other		of sections 93115.6 through 93115.9 in	
93115.13(f)	alternative means as listed).	Yes	the ATCM.	NA

Table 6b: State and Federal Requirement Discussion (FEDERAL)				
Applicable Section	Requirement	Engine Complies/Expected to Comply?	Explanation	Condition
NESHAP ZZZZ				
	Requires that new emergency engines comply with the NESHAP by complying with			
40 CFR 63.6590(b)-(c)	the applicable NSPS	Yes	See NSPS section below.	NA
NSPS IIII				
	Requires that engines meet emission limits equivalent to tier 3 levels (tier 2 for engines		Use of an EPA certified tier 3 engine (tier 2 for engines with a rated power in excess of 750 bhp) with PM emission below this level satisfies this requirement. This is a tier 2, >750 bhp	
40 CFR 60.4205	750 bhp or higher)	Yes	engine; therefore, it complies.	NA
40 CFR 60.4207	Sets maximum fuel sulfur limits for fuel equivalent to CARB diesel requirements	Yes	Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which will ensure compliance with this requirement.	C28412
40 CFR 60.4209	Requires installation of a non- resettable hour meter	Yes	Permit conditions require the installation and use of a non-resettable hour meter.	C28419

	Requires that the engine be			
	apprented according to			
	operated according to			
	manufacturer's emission			
	related instructions and that no			
	changes are made to emission			
	related settings unless allowed		Permit conditions specify this	
40 CFR 60.4211(a)	by manufacturer	Yes	requirement.	C43433
			Use of an EPA certified tier 3 engine	
			(tier 2 for engines with a rated power in	
	Requires that the engine be		excess of 750 bhp). This is a tier 2,	
	certified under EPA		>750 bhp engine; therefore, it	
40 CFR 60.4211(c)	regulations	Yes	complies.	NA
			Compliance ensured by permit	
			conditions for ATCM limiting operation	
			for maintenance and testing to no more	
			than 50 hours per calendar year and	
			restricting non-emergency operation for	C40239.
	Restricts operation of		only those uses allowed by the permit	C40907
	emergency engines for non-		(maintenance and testing) ATCM	C28643
40 CFR 60 4211(e)	emergency purposes	Ves	requirements more stringent than NSPS	020015
	Requires records of operation	105	requirements more sumgent than (6) S.	
	to show that engine is operated		Compliance is expected and specified in	
40 CFR 60 4214(b)	as an emergency engine	Ves	permit conditions	C45252
40 CI K 00.4214(0)		105	The angine is a certified Tion 2 angine	C+ <i>J2J2</i>
			that uses an aftermearlist DDF. The DDF	
			that uses an altermarket DPF. The DPF	
			package is equipped with a backpressure	
			monitor to ensure proper operation of	
	For engines with DPFs,		the DPF, which fulfills this requirement.	
	requires records of corrective		Permit conditions specify following	
	actions taken when the high		manufacturer's instructions which	~
	backpressure limit is		ensures compliance with this	C43433
40 CFR 60.4214(c)	approached	Yes	requirement.	
			Compliance with this provision is	
	Requires that all records be		expected and this requirement is	
40 CFR 60.7(f)	maintained for at least 2 years	Yes	specified in permit conditions.	C43432

ENGINEERING EVALUATION ATTACHMENTS

4.6 Title V.

This is not a Title V facility; therefore, this requirement does not apply.

4.7 CEQA.

CEQA requires government agencies, such as air districts, to consider the environmental consequences of their actions before approving plans and policies or committing to a course of action on a project.

The project being permitted is categorically exempt from the requirements of the California Environmental Quality Act (CEQA) under Article 19 of the CEQA Guidelines. Specifically, the project is exempt under Section §15303, which includes projects that involve the new construction of accessory structures and the installation of small new equipment and facilities in small structures. This exemption is appropriate as the project falls within the scope of established exemptions that recognize the negligible impact of such activities on the environment and is not subject to any of the exceptions to the Categorical Exemptions listed in Section 15300.2 of the CEQA Guidelines. Consequently, no further environmental review is required.

5.0 Recommendations

This equipment is expected to comply with all rules and regulations; therefore, it is recommended that an Authority to Construct be issued with the following conditions.

6.0 Recommended Conditions

Modified APCD2024-CON-002189* with a 50 hour/year limit for nonemergency/maintenance and testing with a daily limit of 18 hr/day maximum.

* APCD2024-CON-002189: Modified APCD2020-CON-001718 with daily and annual limits for non-emergency/maintenance and testing in equipment description and updated DPF phrasing and backpressure. For 34c,34h-emergency diesel gen., DPF 0.01 g/bhp-hr PM (**34.2**"), 50 hrs., NSPS IIII, no school restrictions, added C46377 and C46473:

.	The engine shall be operated exclusively during emergencies as defined in
	Rule 69.4.1 or Rule 12 or 17CCR93115 as applicable, or for maintenance
C40239	and testing.
	This engine shall not be enrolled in a non-emergency Demand Response
	Program (DRP). This condition shall not apply to engines operating
	pursuant to the rolling blackout reduction program as defined in 17 CCR
	93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR
C40907	93115)
	Engine operation for maintenance and testing purposes shall not exceed
	the hours per day, and hours per calendar year specified in the above
C46377	equipment description. (17 CCR 93115, Rule 1200, NSR)
	This engine shall only use CARB diesel fuel. (Rule 12, Rule 69.4.1, 17
C28412	CCR 93115, 40 CFR 60 Subpart IIII)

Proposed Conditions:

C28413	Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50 (Rule 50)
020413	The equipment described above shall not cause or contribute to a public
C28414	nuisance. (Rule 51)
	Engine operation in response to notification of an impending rotating outage shall be subject to all the following restrictions:
	(a) the utility distribution company has ordered rotating outages in the control area where the engine is located,
	(b) the engine is operated no more than 30 minutes prior to the time when the utility distribution company officially forecasts a rotating outage in the cited control area, and
	(c) the engine operation is terminated immediately after the utility distribution company advises that a rotating outage is no longer in effect.
C28560	This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)
	A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
	(a) old meter's hour reading,
	(b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and
	(c) copy of receipt of new meter or of installation work order.
	A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
C28419	(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
	The engine shall be equipped with a permanently installed continuously- operated monitor that measures the backpressure between the engine and diesel particulate filter. This monitor shall be capable of displaying the backpressure between the engine and the diesel particulate filter in one of the following ways:
	(a) the monitor shall be connected to a permanently installed display that shows the backpressure between the engine and diesel particulate filter,
	Or
C40721	(b) the monitor shall be capable of downloading backpressure data to a

	computer or other device that can display the backpressure data. This data
	shall be downloaded at least once per month in which the engine operates and be made available upon District request
	[17 CCR 93115, 40 CFR 60 Subpart IIII]
	Engine backpressure shall not exceed the high backpressure limit of 34"
	inches of water at any time to protect the diesel particulate filter.
	Operation of the DPF should follow engine manufacturer's
newBackpressure	The angine shall be equipped with a device that alerts the owner or
	operator prior to the high backpressure limit being reached (17 CCR
C29194	93115, 40 CFR 60 Subpart IIII)
	The owner or operator of this engine shall install, configure, operate, and
	maintain this engine and control device, if any, according to the
	manufacturer's emission-related written instructions. The owner or
	operator may change only those emission-related settings that are
	permitted by the manufacturer. The periodic maintenance shall be
C/13/133	60 Subpart IIII)
	The owner or operator of the engine shall maintain the following records
	on site for at least the same period of time as the engine to which the
	records apply is located at the site:
	(a) documentation shall be maintained identifying the fuel as CARB
	diesel, and
	(b) manual of recommended maintenance provided by the manufacturer
	(b) manual of recommended maintenance provided by the manufacturer.
C43434	(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)
	The owner or operator of this engine shall conduct periodic maintenance
	of the engine and add-on control equipment, if any, as recommended by
	the engine and control equipment manufacturers or as specified by the
	be conducted at least once each calendar year, and shall include, but is not
	limited to, the following:
	1) Change oil and filter, or test in accordance with the requirements of 40
	CFR §63.6625(i) or (j);
	2) inspect and clean air inters, replacing as necessary; and
	3) Inspect all hoses and belts, replacing as necessary.
	Documentation of oil and filter changes or copies of the oil test analysis
	shall be kept on site and made available upon request. If testing in
	accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must
	analyze the 1 otal Base Number, viscosity and percent water content (for
C45595 (same as	percent water content (for spark ignited engines). If all of these
45251)	condemning limits are not exceeded, the engine owner or operator is not

	required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
	(Rule 12, and/or Rule 69.4.1, and/or 40 CFR 63 Subpart ZZZZ)
	contains the following records:
	(a) backpressure between the engine and diesel particulate filter recorded at least once each month in which the engine operates.
	(b) daily records of any corrective actions taken in response to the backpressure monitor notifying the owner or operator of the high backpressure limit being approached.
	This log shall be made available to the Air Pollution Control District upon request.
C40725	(17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart NESHAP ZZZZ)
C43432	All records required by this permit shall be maintained on site and readily available for District inspection for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. (Rule 12, Rule 69.4.1, 40 CFR 60 Subpart IIII)
	 (Rule 12, Rule 03.11, 10 CFR 00 Subpart III) The owner or operator of this engine shall maintain a monthly operating log containing, at a minimum, the following: (a) dates and elapsed times of every instance of engine operation based on actual readings of the engine hour meter; whether the operation was for maintenance and testing purposes or emergency use; and the nature of the emergency; (b) for a total external power outage, documentation from the serving utility of an outage in the area where the engine is located; for an internal power outage, a description of what caused the failure and receipts and/or work orders for the necessary repairs; for a partial external power outage, including a low-voltage or electrical transient incident in which the external power voltage is low enough to trigger the operation of an emergency standby engine, a description of the incident; (c) total cumulative hours of operation per calendar year; (d) records of annual engine maintenance shall include the date the maintenance was performed and the nature of the maintenance; and (e) hours of operation for all uses other than those specified above and identification of the nature of that use.
C46473	Subpart ZZZZ)

	Access, facilities, utilities and any necessary safety equipment for source
	testing and inspection shall be provided upon request of the Air Pollution
CHW001	Control District.
	This Air Pollution Control District Permit does not relieve the holder from
	obtaining permits or authorizations required by other governmental
CHW002	agencies.
	The permittee shall, upon determination of applicability and written
	notification by the District, comply with all applicable requirements of the
	Air Toxics "Hot Spots" Information and Assessment Act (California
CHW003	Health and Safety Code Section 44300 et seq.)