**Facility Name:** 2220 Encinitas, LLC **Equipment Type:** 34H – Emergency Diesel Engine **Application #:** APCD2025-APP-008737 **ID#:** APCD2025-SITE-04807 **Equipment/Facility Address:** 2220 Encinitas Boulevard, Encinitas, CA 92024 **Facility Contact:** Alex Leonard, 402-326-8596 alex.leonard@greystar.com Patrick Tam, (714) 893-7900 **Applicant Contact:** tam@proehs.com 7/26/2025 X Hawzhin Muhamed Hawzhin Muhamed Assistant APC Engineer Signed by: E089831 **Permit Engineer:** X Joseph N. Herzig Senior Air Pollution Control Engineer **Senior Engineer Signature:** 

#### 1.0 Background

- **1.1 Type of Application:** New installation of 315 bhp emergency diesel engine driving a 200-kW generator
- **1.2 Permit History:** This is the initial application for this equipment.
- **1.3 Facility Description:** This is a Residential building. The facility does not have any active permits with SDAPCD. No other applications are open at this site.
- **1.4 Other Background Info:** No hearing board actions, permit denials, legal settlements, NOV, or nuisance complaints. This site is not a Title V facility.

#### 2.0 Process Description

#### 2.1 Equipment Description.

Emergency Diesel Engine: Manufacturer: John Deere

S/N: TBD

Model: 6068HFG85A Model Year: 2024

Engine Family: RJDXL13.5103

Tier: 3

Horsepower (maximum rated): 315 BHP

Equipped with after-market DPF Johnson Matthey-CRT(+)-2-N-CS-BITO-8/8-LP

Driving a 200-kW emergency-use standby generator.

4.8-inch diameter, vertical exhaust with Flapper, 11.8 feet above ground.

#### 2.2 Process Description.

This is a diesel- powered generator to be used in situations of emergency and for limited operations for maintenance and testing purposes.

#### 2.3 Emissions Controls.

This is a Tier 3 certified diesel engine. It is equipped with an aftermarket verified Johnson Matthey JM-CRT(+)-2-N-CS-BITO-8/8-LP DPF. The 2024 engine family have not been updated onto CARB's verification list for this DPF; however, the carryover engine family DJDXL13.5103 for model year 2013 is verified. Allowable back pressure is specified as 41 Inch of Water.

#### 2.4 Attachments.

Generator and DPF specification sheets

#### 3.0 Emissions

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

Table 1: Estimated PTE for criteria pollutants

	Emission Factor	Hourly Emissions	Daily Emissions	Annual En	nissions
Compound	g/bhp-hr	lbs/hr	lbs/day	tons/year	lbs/yr
NOx	2.47	1.71	41.15	0.043	85.74
CO	0.45	0.31	7.46	0.01	15.54
NMHC	0.08	0.06	1.37	0.001	2.85
PM	0.01	0.01	0.19	0.0002	0.39
SOx	NA	0.003	0.08	0.0001	0.162

#### 3.2 Estimated Emissions Assumptions.

• Table 1 evaluates the emission unit assuming full load operations, 24 hours per day and a total of 50 hours per year.

- Manufacturer-provided emissions were EPA certified emission factors. Standard toxics emission factors for diesel engines.
- Emissions calculated using emission reduction percentage for PM.
- 15 ppmw sulfur fuel.
- 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 3: Prohibitory Rule Discussion					
Applicable Section	Requirement	Engine Complies?	Explanation	Condition		
	Visible Emissions not to exceed	•	Compliance with this requirement is achieved			
	20% opacity or Ringlemann 1 for		through the use of an EPA certified engine,			
	more than 3 minutes in a 60		and permit conditions will specify this			
Rule 50	minute period	Yes	requirement.	C28413		
			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			
	Cannot cause or contribute to a		will prohibit this engine from causing a public			
Rule 51	public nuisance	Yes	nuisance.	C28414		
Truic 51	Emissions of sulfur compounds	105	naisanee.	C20111		
	calculated as SO2 on a dry basis		Permit conditions will require use of CARB			
	shall not exceed 0.05 % by volume		diesel fuel (15 ppm Sulfur by weight), which			
Rule 53	on a dry basis.	Yes	will ensure compliance with this requirement.	C28412		
			Permit conditions will require use of CARB			
	Sulfur content of liquid fuel shall		diesel fuel (15 ppm Sulfur by weight), which			
Rule 62	not exceed 0.5 % sulfur by weight.	Yes	will ensure compliance with this requirement.	C28412		
Rule 69.4.1						
	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\leq bhp<175; 3.0 g/bhp-hr if		Use of an EPA certified tier 3 engine (tier 2 for			
	175≤bhp<750; 4.8 g/bhp-hr if		engines with a rated power in excess of 750			
	bhp≥750. For a new or		bhp) ensures that NOx emissions comply with			
	replacement certified diesel		this requirement. This engine is a tier 3; with			
60 44 (1) (4) (1) (7)	engine, CO emissions shall not		an aftermarket DPF, therefore it complies	37.		
69.4.1(d)(1)(ii)(E)	exceed: 3.7 g/bhp-hr if	Yes	with this requirement.	NA		

	50\(\leq \text{bhp} < 100; 3.7 \\ g/\text{bhp-hr if} \\ 100\(\leq \text{bhp} < 175; 2.6 \\ g/\text{bhp-hr if} \\ 175\(\leq \text{bhp} < 750; 2.6 \\ g/\text{bhp-hr if} \\ \end{array}			
	bhp≥750.			
	Engines operated on diesel fuel shall use only California Diesel		Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which	
69.4.1(d)(2)	Fuel.	Yes	will ensure compliance with this requirement.	C28412
69.4.1(e)(3)	All engines must be equipped with a non-resettable totalizing fuel or hour meter which shall be replaced in accordance with subsection (g)(7) of this rule.	Yes	Permit conditions will require installation of a non-resettable hour meter and specify the requirements for replacement.	C28419
	The owner or operator must conduct specific maintenance on the engine and control equipment, including oil change/analysis, and checking hoses and belts.  Maintenance is required 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	
69.4.1(f)(2)	once each calendar year.  Specifies engine information that	Yes	conditions.  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	C43433
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		Compliance with this provision is expected and	
69.4.1(g)(2)	engine for each calendar year and maintenance records including	Yes	this requirement is specified in permit conditions.	C45252
U2.7.1(g)(2)	mamichanice records including	103	conditions.	CT3232

	datas maintananas is manfamas d			
	dates maintenance is performed.			
	Engines within 500 feet of schools			
	must record the time of day when			
	the engine is operated for testing			
	and maintenance. Specific records			
	for internal, external, and partial			
	external power outages are			
	required.			
	Requires records of the dates and			
	times when fuel is being			
	combusted and cumulative			
	operating time if claiming a		The applicant has not claimed a	
69.4.1(g)(6)	commissioning exemption.	NA	commissioning period is needed.	NA
( <b>G</b> ) ( )				
	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(g)(7)	replacing an hour meter.	Yes	conditions.	C28419
	Requires specified records to be			
	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.

Table 4: Classification of Major/PSD Source and Modification New Source Review (NSR) Requirements

	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
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. No requirements of this rule apply as shown in the table on the following page.

Table 5: New Source Review Discussion						
Rule/Requirement	Requirement	Applicability	Discussion	Condition		
			This is not a major			
	Rule 20.2 applies to		source, so Rule 20.2			
Applicability	non-major sources	Yes	applies.	NA		
Type of	NI	V	NIA	NIA		
application	New	Yes	NA	NA		
	No exemptions apply to this					
Exemptions	equipment	NA	NA	NA		
20.2(d)(1) – BACT	сциринен	1471	177	111		
20.2(u)(1) - DAC 1			The potential to emit for			
	Installation of		this pollutant is 41.15			
	BACT is required if	Triggered,	lbs/day, which exceed this			
	emissions of NOx	see discussion	trigger level, so BACT is			
BACT - NOx	exceed 10 lbs/day	below	required.	NA		
	Installation of		The potential to emit for			
	BACT is required if	Not	this pollutant does not			
	emissions of VOC	Triggered, no	exceed this trigger level,			
BACT - VOC	exceed 10 lbs/day	permit limit	so BACT is not required.	NA		
	Installation of		The potential to emit for			
	BACT is required if	Not	this pollutant does not			
DACE DM 10	emissions of PM-10	Triggered, no	exceed this trigger level,	37.4		
BACT - PM-10	exceed 10 lbs/day	permit limit	so BACT is not required.	NA		
	Installation of	Not	The potential to emit for			
	BACT is required if emissions of SOx	Triggered, no	this pollutant does not exceed this trigger level,			
BACT - SOx	exceed 10 lbs/day	permit limit	so BACT is not required.	NA		
20.2(d)(2) - AQIA	exceed 10 105/day	permit mint	50 Brief is not required.	1471		
20.2(u)(2) - AQIA	Required for					
	project emission		The increase in emissions			
	increases in excess		of this air contaminant			
	of 25 lbs/hr, 250		from this project does not			
	lbs/day or 40 ton/yr		exceed any of these			
	of NOx calculated		levels, so no AQIA is			
AQIA - NOx	as NO2	Not Triggered	required.	NA		
			The increase in emissions			
	Required for		of this air contaminant			
	project emission		from this project does not			
	increases in excess		exceed any of these			
AQIA - PM-10	of 100 lbs/day or 15 ton/yr of PM-10	Not Triggered	levels, so no AQIA is required.	NA		
11V1-10	1011/ y1 01 1 1V1-10	140t Higgered	The increase in emissions	11/1		
	Required for		of this air contaminant			
	project emission		from this project does not			
	increases in excess		exceed any of these			
	of 25 lbs/hr, 250		levels, so no AQIA is			
AQIA - SOx	lbs/day or 40 ton/yr	Not Triggered	required.	NA		

as SO2			
Required for project emission increases in excess of 100 lbs/hr, 550 lbs/day or 1000 ton/yr of CO	Not Triggered	The increase in emissions of this air contaminant from this project does not exceed any of these levels, so no AQIA is required.	NA
Applicable to source that may have a significant impact on a class I area	NA	This is not a PSD source and emissions are not expected to impact a class I area	NA
Requires 30 day public notice if an AQIA was required or if increase in VOC emissions from the project exceed 250 lbs/day or 40 ton/year	NA	AQIA was not required and VOC emission increase from this project does not exceed these levels.	NA

#### 20.2(d)(1) - BACT

The PTE for NOx for the engine is 41.15 lbs./day, greater than the 10 lbs./day threshold for BACT. Therefore, a BACT analysis is required.

The PTE for NOx is 41.15 lbs/day based on 20 hours of non-emergency operation, which is greater than the 10 lbs/day threshold for BACT. Alternatives that were considered include natural gas and propane engines, Tier 4F engines including SCR and DPF, and installing an add-on DOC to control VOC. 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 NOx emissions control and DOC for VOC emissions control, methods which are 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.

Project	Engine Size (bhp)	Capital Cost Tier 2	Capital Cost Tier 4	Annual Cost Tier 2	Annual Cost Tier 4	Annual Incremental Cost	Annual Emission Reduction (lb/vr)	Cost 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 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 engine. 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. While the previous analysis was conducted for larger engines, it is still representative for this application too because the equipment is very similar aside from engine size, and 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.

A tier 3 certified engine is the next lowest emitting option and therefore satisfies BACT requirements 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.

Table 6a: Rule 1200 Applicable Requirements and Discussion

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		
used?	HRA	HRA performed by the District's Toxics Group.
		This engine is equipped with an unverified DPF. This DPF
		verified by CARB for the carryover engine family
Is the Project Equipped		DJDXL13.5103 for model year 2013 but has not yet been
with T-BACT?	No	verified for this specific engine.
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.

A refined health risk assessment was performed for the proposed engine which evaluated the estimated risk level at the point of maximum impact. The Estimated worker risk does not exceed the residential risk. Therefore, only residential risk is evaluated in Table 6a and it meets standers of Rule 1200.

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 school (The Rhoades School), so public notice is required for this section. 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.

T	Table 7a: 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		
	Requires the use of CARB diesel		Permit conditions will require use of CARB diesel fuel (15 ppm Sulfur by weight), which will ensure compliance			
93115.5 93115.6(a)(1)	as fuel.  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. This rule dose not apply if the engine emits no more than 0.01g/bhp-hr of diesel PM.	Yes	This engine is equipped with an unverified DPF, therefore it is not exempt from this rule. Permit conditions specify this requirement.	C28412 C45252		
93115.6(a)(2)	Allows for engine to be started 30 minutes prior to rotating outage	Yes	Permit conditions specify this requirement.	C28560		
93115.6(a)(3)(A)(1)(b)	Requires that all engines used for emergency purposes be certified to at least tier 3 standards (tier 2	Yes	Use of an EPA certified tier 3 engine (tier 2 for engines with a rated power in excess of 750 bhp) with PM emission	NA		

	for engines with a rated power in		below this level satisfies this	
	excess of 750 bhp) and have Disel		requirement.	
	PM emissions less than 0.15			
	g/bhp-hr			
	Restricts maintenance and testing			
	operation to no more than 50		Permit conditions specify this	~~~
93115.6(a)(3)(A)(1)(c)	hours per calendar year	Yes	requirement.	C28643
	Does not allow emergency			
	standby engines to operate as part			
	of "demand response programs"			
	unless additional requirements are		Permit conditions specify this	
93115.6(c)	met	Yes	requirement.	C40907
	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
			Permit conditions require the	
	Requires installation of a non-		installation and use of a non-resettable	
	resettable hour meter and for		hour meter.	
	engines with DPFs, a		Permit conditions require installation	
	backpressure monitor that alerts		and use of a backpressure monitor	C28419,
	the operator when the		between the engine and DPF. This	C40721,
	backpressure limit of the engine		engine is equipped with aftermarket	backpressure
93115.10(d)	is approached	Yes	DPF.	limit
	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
			The manufacturer's engine rating	
	Allows the use of certification		specific emission data plus DPF	
	data or other emission test data to		emission reduction guarantee were used	
	demonstrate compliance with		to determine compliance and for	
93115.13(a)	emission limits	Yes	emission calculations	NA
			This engine is a tier 3; which has PM	
			emissions below 0.15 g/bhp-hr without	
	For engines equipped with DPFs,		any emissions controls and therefore a	
	allows the use of an engine		DPF is not required. However, it is	
	certified to a PM-10 emission		equipped with an aftermarket DPF, that	
	level of no more than 0.15 g/bhp-		is not CARB verified with this engine	
	hr and a verified DPF in lieu of		family number, but DPF verified by	
	source testing (or other alternative		CARB for previous model year	
93115.13(f)	means as listed)	Yes	(carryover) engine family.	NA

Table 7b: State and Federal Requirement Discussion						
Applicable Section	Requirement	Engine Complies/Expected to Comply?	Explanation	Condition		
NESHAP ZZZZ						
40 CFR 63.6590(b)-(c)	Requires that new emergency engines comply with the NESHAP by complying with the applicable NSPS	Yes	See NSPS section below.	NA		
NSPS IIII						
40 CFR 60.4205	Requires that engines meet emission limits equivalent to tier 3 levels (tier 2 for engines 750 bhp or higher)	Yes	Use of an EPA certified tier 3 engine (tier 2 for engines with a rated power in excess of 750 bhp) satisfies this requirement.	NA		

			Permit conditions will require use of	
	Sets maximum fuel sulfur		CARB diesel fuel (15 ppm Sulfur by	
	limits for fuel equivalent to		weight), which will ensure compliance	
40 CFR 60.4207	CARB diesel requirements	Yes	with this requirement.	C28412
			Permit conditions require the	
	Requires installation of a non-		installation and use of a non-resettable	
40 CFR 60.4209	resettable hour meter	Yes	hour meter.	C28419
	Requires that the engine be			
	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
	Requires that the engine be		Use of an EPA certified tier 3 engine	
	certified under EPA		(tier 2 for engines with a rated power in	
40 CFR 60.4211(c)	regulations	Yes	excess of 750 bhp).	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	
	Restricts operation of		only those uses allowed by the permit	C40239,
	emergency engines for non-		(maintenance and testing). ATCM	C40907,
40 CFR 60.4211(e)	emergency purposes	Yes	requirements more stringent than NSPS.	C28643
	Requires records of operation			
	to show that engine is operated		Compliance is expected and specified in	
40 CFR 60.4214(b)	as an emergency engine	Yes	permit conditions.	C45252
			The engine is a certified Tier 3 engine	
			that uses an aftermarket DPF. The	
			engine is equipped with a backpressure	
	For engines with DPFs,		monitor to ensure proper operation of	
	requires records of corrective		the DPF which fulfills this requirement.	
	actions taken when the high		Permit conditions specify these	
	backpressure limit is		requirements along with following	
40 CFR 60.4214(c)	approached	Yes	manufacturer's instructions which	C43433

			ensures compliance with this 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 Guidelines §15303 exempts construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure.

#### 5.0 Recommendations

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

#### **6.0 Recommended Conditions**

Modified Standard BEC APCD2020-CON-001716 is recommended with 50 hour/year limit for non-emergency/maintenance and testing use. Maximum allowable backpressure of (3.0 inches Hg) or 41 inches of water.