



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

October 15, 2010

Mr. Gerardo Rios
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Dear Mr. Rios:

Subject: Southern California Edison (ID 4477) – Title V Permit Revision

Southern California Edison has proposed to revise their Title V permit by installing a new emergency electrical generator, and removing the existing one. This is a power producing facility (SIC 3840) located at 1 Pebbly Beach Road, Avalon, CA 90704. This proposed permit revision is classified as a “minor permit revision” to their Title V permit. Attached for your review are the evaluation and permit for the proposed revision.

If you have any questions or need additional information regarding the proposed permit revision, please call Chris Perri at (909) 396-2696.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Brian L. Yeh', is written over a horizontal line.

Brian L. Yeh
Senior Manager
General Commercial & Energy Team
Engineering & Compliance

BLY:CGP: Cover Letter_4477

Attachments

Meeting the air quality goals...



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PERMIT TO OPERATE EVALUATION

APPLICANT:

Southern California Edison
P.O. Box 900, GO 3, 3rd Floor
Rosemead, CA 91770
Facility ID# 72993

EQUIPMENT LOCATION:

1 Pebbly Beach Rd
Avalon, CA 90704

EQUIPMENT DESCRIPTION:

Section D of the SCE, Pebbly Beach Facility Permit, ID #4477 (proposed changes are shown in **bold underline** or ~~strikethrough~~)

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
Process 1: Internal Combustion					
System 1: Power Generation					
<u>INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL QSL9-G3, 19.2 GAL/HR MAX FUEL USE, WITH TURBOCHARGED/AFTER-COOLED, 399 HP</u> <u>A/N: 514970</u>	<u>D81</u>		<u>NOX: PROCESS UNIT</u>	<u>CO: 2.6 GR/BHP-HR DIESEL (4) [RULE 1703-BACT]; PM: (9) [RULE 404]; PM10: 0.15 GR/BHP-HR DIESEL (4) [RULE 1303]; NOX+NMHC: 3.0 GR/BHP-HR DIESEL (4) [RULE 1303-BACT, RULE 1703-BACT, RULE 2005]; NOx 125.4 LBS/1000 GALS (1)[RULE 2012]</u>	<u>C1.4, D12.1, E116.1, H23.4, K67.7</u>
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, GENERAL MOTORS, MODEL 68145120, 6 CYLINDERS, 2 CYCLE, NATURALLY ASPIRATED, 180 HP A/N: 254481	D7		NOX: PROCESS UNIT	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012] PM: (9) [RULE 404]	C1.2, D12.1, D135.1, E116.1, H23.2, K67.2



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COMPLIANCE RECORD REVIEW:

There is no record of any compliance activity against this facility in the District's compliance database for the last 12 months.

BACKGROUND:

This application was submitted on September 23, 2010 for an emergency generator located at Edison's facility on Catalina Island. The new engine will replace the existing engine at the site.

PROCESS DESCRIPTION:

The unit is a Cummins engine fired on diesel fuel and rated at 399 hp. The purpose of the engine is to provide electrical power in case of emergency. Following are the engine specifications:

Engine Manufacturer	Cummins
Model Number	QSL9-G3
Maximum Rating	399 hp @ 1800 rpm
Maximum Fuel Consumption	19.2 gallons per hour
Maximum Exhaust Flow	2085 cfm
Exhaust Temperature	1061 °F
Configuration	4 cycle, turbocharged/aftercooled

EMISSIONS:

This is an AQMD certified engine. Emission factors are taken from the certification application (A/N 461873).

Pollutant	EF uncontrolled (g/bhp-hr)	Hourly Emissions	
		Uncontrolled	Controlled
RHC	0.17	0.15	0.15
NOx	2.74	2.41	2.41
SOx	0.005	0.00	0.00
CO	2.31	2.03	2.03
PM10	0.12	0.11	0.11



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The emission summary is shown below:

Pollutant	Maximum Emissions, Uncontrolled		Maximum Emissions, Controlled		30 Day Average Emissions	Annual Emissions
	Lbs/hr	lbs/day	Lbs/hr	Lbs/day	lbs/day	lbs/yr
RHC	0.15	3.6	0.15	3.6	0	8
NOx	2.41	57.8	2.41	57.8	0	482
SOx	0.00	0.1	0.00	0.1	0	0
CO	2.03	48.7	2.03	48.7	0	102
PM10	0.11	2.64	0.11	2.64	0	6

Notes:

Maximum daily emissions are based on 24 hrs/day operation

30 day average emissions are based on 50 hours/yr or 4.2 hours per month operation.

Annual emissions are based on 200 hrs/yr for NOx (Reclaim), and 50 hrs/yr for all other pollutants

EVALUATION:

Rule 212 – Standards for Approving Permits

The engine is not located within 1000 feet of a school, (the closest school is Avalon High School located about 1.3 miles the west). The emissions from the engine are below the threshold of this rule, and Rule 1401 limits do not apply to emergency engines. Therefore, no public notice is required.

Rule 401 – Visible Emissions

Visible emissions are not expected.

Rule 402 – Nuisance

Nuisance problems are not expected.

Rule 404 – Particulate Matter Concentration

This rule restricts the discharge of PM from the engines, with the limit being based on the exhaust flow. Approximate exhaust flow is about 2085 cfm. At this exhaust flow rate, the Rule 404 limit is about 0.14 gr/scf. The engine is expected to comply with this limit based on the following calculation:

$$(0.11 \text{ lbs/hr} * 7000 \text{ gr/lb}) / (2085 * 60) \text{ dscfh} = 0.006 \text{ gr/scf}$$

Rule 431.2 – Sulfur Content of Liquid Fuels

The applicant is expected to comply with the requirements that the maximum sulfur content of diesel fuel used in these engines cannot exceed 500 ppm, if the fuel was purchased prior to June 1, 2004, and that only 15 ppm sulfur fuel can be purchased after June 1, 2004.

Rule 1110.2 – IC Engines

Emergency engines are exempt from this rule by paragraph (i)(2).



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Regulation XIII – New Source Review

Emergency engines are exempt from offsets and modeling under paragraph (a)(4) – Emergency Equipment, provided the equipment does not operate more than 200 hrs/yr, and is only operated to provide nonutility emergency electrical power. The engine is required to meet BACT. The required emergency diesel engine BACT is compared to the provided BACT in the table below:

Pollutant	Required BACT	Engine Emissions	Compliance
	Gr/bhp	gr/bhp	
CO	2.6	2.31	Yes
PM10	0.15	0.12	Yes
NO _x +NMHC	3.0	2.91	Yes

BACT limits are taken from AQMD BACT Guidelines, Tier3.

Rule 1401 – Carcinogenic Air Contaminants

Emergency engines are exempt from this rule by paragraph (g)(F).

Rule 1470 – Air Toxics Control Measure

This rule, adopted on April 2, 2004, applies to existing and new diesel engines, both emergency and non-emergency, portable and stationary. Requirements include specifying that new engines must meet the Off Road Compression-Ignition Standards (Title 13, CCR section 2423) for NO_x, ROG, and CO emissions, limiting the PM emissions for all new and existing engines, and restricting the use of emergency engines, especially those near schools.

The rule requires the following for this engine:

1. CARB diesel only
2. Emissions of PM < 0.40 gr/bhp
3. Operation limited to no more than 50 hours/yr for maintenance and testing (since the PM emission rate is less than 0.15 g/bhp-hr)*
4. Meet the applicable EPA off-road engine standards
5. Install a non-resettable operating time meter
6. Maintain an engine operating hours log book

** Note that although R1470 allows up to 100 hours per year operation for engines with a PM10 emission rate less than 0.01 gr/bhp-hr, BACT for new engines only allows a maximum of 50 hours per year.*

The engine will be conditioned accordingly, and compliance is expected. There is no school within 100 meters of the equipment.

Regulation XX – Reclaim

The engine will be classified as a Process Unit, and is required to maintain a timer and report emissions based on the operating time of the engine and the emission factor listed on the permit. The emission factor will be based on the manufacturer provided NO_x emission rate of 2.74 gr/bhp-hr, which is equivalent to 125.4 lbs/1000 gals (based on 399 hp and 19.2 gal/hr fuel use). NO_x emission will be accounted for under SCE's RTC allocation.



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Regulation XXX – Title V

The facility is subject to Title V. The addition of this engine is considered a Minor Permit Revision because there is no increase in emissions on a 30 day average basis. As such, the permit is subject to a 45 day EPA review and comment period.

40 CFR60 Subpart IIII – NSPS for Stationary Compression Ignition Engines

The manufacturer of model year 2007 and later emergency engines greater than 50 hp but less than 3000 hp must certify their engines to the standards of 40 CFR 89.112 and 40 CFR 89.113 (Tier 2 standards for this engine). The diesel fuel must meet the requirements of 40 CFR 80.510(a) (500 ppm sulfur until 7/1/10 when it's reduced to 15 ppm sulfur). A non-resettable timer is required. Compliance is expected.

RECOMMENDATION:

After completion of the EPA notice required under Rule 3003, a Permit to Construct/Permit to Operate can be issued for the engine, subject to the conditions listed in the following section.

CONDITIONS:

C1.4

The operator shall limit the operating time to no more than 200 hours in any one year.

The 200 hours per year shall include no more than 50 hours in any one year for maintenance and testing purposes.

The operation of the engine beyond the 50 hr/yr allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the grid operator or electric utility has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage.

Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007]

D12.1

The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 11-14-1997; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]



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E116.2

This engine shall not be used as part of a demand response program using interruptible service contract in which a facility receives a payment or reduced rates in return for reducing its electric load on the grid when requested to do so by the utility or the grid operator.

[RULE 1470, 6-1-2007]

H23.4

This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470
H2S	District Rule	431.2

[RULE 1470, 6-1-2007, RULE 431.2]

K67.1

The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log listing on a monthly basis the emergency use hours of operation, maintenance and testing hours of operation, and any other hours of use with a description of the reason for operation. Additionally, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation.

The log shall be kept for a minimum of five calendar years prior to the current year and be made available to District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year [RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996, RULE 1470, 6-1-2007]

FACILITY PERMIT TO OPERATE

**SO CAL EDISON CO
1 PEBBLY BEACH RD
AVALON, CA 90704**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

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FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
System 1: POWER GENERATION					
INTERNAL COMBUSTION ENGINE, UNIT NO. 7, DIESEL FUEL, EMD, MODEL 16-567-C, WITH TURBOCHARGER, 1500 HP WITH A/N: GENERATOR, 1000 KW	D1		NOX: MAJOR SOURCE**	CO: 2000 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; ROG: 300 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]	D323.2, H23.3
INTERNAL COMBUSTION ENGINE, UNIT NO. 8, DIESEL FUEL, EMD, MODEL 16-567-D4, TWO CYCLE, LEAN BURN, WITH TURBOCHARGER, 2150 HP WITH A/N: GENERATOR, 1500 KW	D2		NOX: MAJOR SOURCE**	CO: 2000 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; ROG: 300 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]	D323.2, H23.3
INTERNAL COMBUSTION ENGINE, UNIT NO. 10, DIESEL FUEL, EMD, MODEL 16-645-E1, WITH TURBOCHARGER, 1575 HP WITH A/N: GENERATOR, 1125 KW	D3		NOX: MAJOR SOURCE**	CO: 2000 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; ROG: 305 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]	D323.2, H23.3
INTERNAL COMBUSTION ENGINE, UNIT NO. 12, DIESEL FUEL, EMD, MODEL 12-645-E4, WITH TURBOCHARGER, 2200 HP WITH A/N: GENERATOR, 1500 KW	D5		NOX: MAJOR SOURCE**	CO: 2000 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; ROG: 301 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]	D323.2, H23.3

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
INTERNAL COMBUSTION ENGINE, UNIT NO. 14, DIESEL FUEL, GENERAL MOTORS, MODEL S16-645-E1, 16 CYLINDERS, WITH TURBOCHARGER, 1950 HP WITH A/N: GENERATOR, 1400 KW	D6		NOX: MAJOR SOURCE**	CO: 2000 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; ROG: 294 PPMV DIESEL (5) [RULE 1110.2, 2-1-2008]	D323.2, E71.1, H23.3
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL QSL9-G3, 19.2 GAL/HR MAX FUEL USE, WITH AFTERCOOLER, TURBOCHARGER, 399 BHP A/N:	D81		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; NOX: 125.4 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	C1.4, D12.1, E116.1, H23.4, K67.7
Process 2: PETROLEUM STORAGE					
STORAGE TANK, FIXED ROOF, UNHEATED, NO. T3, DIESEL FUEL, 3000 BBL; DIAMETER: 30 FT ; HEIGHT: 24 FT A/N: 418879	D74				B59.1, C1.3, E193.2, K67.5

* (1) (1A) (1B) Denotes RECLAIM emission factor
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 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2: PETROLEUM STORAGE					
STORAGE TANK, FIXED ROOF, UNHEATED, NO. T4, DIESEL FUEL, 3000 BBL; DIAMETER: 30 FT ; HEIGHT: 24 FT A/N: 426363	D75				B59.1, C1.3, K67.5
Process 3: ORGANIC CHEMICAL STORAGE					
STORAGE TANK, PRESSURIZED, NO. 605940, PROPANE, 30000 GALS; DIAMETER: 9 FT ; LENGTH: 65 FT 11.38 IN A/N: 366313	D11				C1.1, C157.1, E57.1, K67.1
STORAGE TANK, PRESSURIZED, NO. 605939, PROPANE, 30000 GALS; DIAMETER: 9 FT ; LENGTH: 65 FT 11.38 IN A/N: 366312	D12				C1.1, C157.1, E57.1, K67.1
STORAGE TANK, PRESSURIZED, NO. 605938, PROPANE, 30000 GALS; DIAMETER: 9 FT ; LENGTH: 65 FT 11.38 IN A/N: 366311	D13				C1.1, C157.1, E57.1, K67.1
STORAGE TANK, PRESSURIZED, NO. 605937, PROPANE, 30000 GALS; DIAMETER: 9 FT ; LENGTH: 65 FT 11.38 IN A/N: 366310	D14				C1.1, C157.1, E57.1, K67.1
Process 6: Rule 219 Exempt Equipment Subject to a Source-Specific Rule					
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER	E48			PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 404, 2-7-1986; RULE 405, 2-7-1986]	D322.1, D381.1, E102.1, K67.4

- * (1) (1A) (1B) Denotes RECLAIM emission factor
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 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6: Rule 219 Exempt Equipment Subject to a Source-Specific Rule					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E49			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	K67.3
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E50			ROG: (9) [RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.1

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE
SO CAL EDISON CO**

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE
 SO CAL EDISON CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
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D6	2	1	1
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D12	3	3	0
D13	3	3	0
D14	3	3	0
E48	3	6	0
E49	4	6	0
E50	4	6	0
D74	2	2	0
D75	3	2	0
D81	2	1	1

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 9-11-1998]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase fuel oil containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

DEVICE CONDITIONS

B. Material/Fuel Type Limits

FACILITY PERMIT TO OPERATE SO CAL EDISON CO.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.1 The operator shall only use the following material(s) in this device :

diesel fuel meeting the requirements of Rule 431.2

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D74, D75]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the number of turnovers to no more than 45 in any one year.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D11, D12, D13, D14]

C1.3 The operator shall limit the throughput to no more than 3000000 gallon(s) per year.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D74, D75]

C1.4 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The 200 hours per year shall include no more than 50 hours in any one year for maintenance and testing purposes.

The operation of the engine beyond the 50 hr/yr allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the grid operator or electric utility has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage.

Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.

[RULE 1110.2, 7-9-2010; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**
RULE 1470, 6-1-2007]

[Devices subject to this condition : D81]

C157.1 The operator shall install and maintain a pressure relief valve set at 250 psig.

[RULE 402, 5-7-1976]

[Devices subject to this condition : D11, D12, D13, D14]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 7-9-2010; **RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012,**
12-5-2003]

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D81]

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E48]

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D1, D2, D3, D5, D6]

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E48]

E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to the unloading barge whenever the tank is being filled.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D11, D12, D13, D14]

E71.1 The operator shall not operate this equipment if the fuel injection timing is not set and maintained at top dead center.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D6]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E48]

E116.1 This engine shall not be used as part of a demand response program using interruptible service contract in which a facility receives a payment or reduced rates in return for reducing its electric load on the grid when requested to do so by the utility or the grid operator.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D81]

E193.2 The operator shall restrict the operation of this equipment as follows:

No later than 90 days after completion of construction of Tank T3 (device D74), existing Tank T1 (device D9) shall be shutdown and its operating permit surrendered to the AQMD.

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1304(c)-Offset Exemption, 6-14-1996]

[Devices subject to this condition : D74]

H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1122

[RULE 1122, 7-11-1997]

[Devices subject to this condition : E50]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

These engines operating with SCR, are exempt from the PM standards of this rule

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D1, D2, D3, D5, D6]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

**FACILITY PERMIT TO OPERATE
 SO CAL EDISON CO**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470
H2S	District Rule	431.2

SUGGESTED CHAR CONDITION PARAMETER NOT SET UP

[RULE 1470, 6-1-2007; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D81]

K. Record Keeping/Reporting

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

throughput records

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D11, D12, D13, D14]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E49]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E48]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

FACILITY PERMIT TO OPERATE SO CAL EDISON CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

MONTHLY FUEL TRANSFER TO THIS TANK

Date of construction completion for Tank T4, and Tank T3

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D74, D75]

K67.7 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log listing on a monthly basis the emergency use hours of operation, maintenance and testing hours of operation, and any other hours of use with a description of the reason for operation. Additionally, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation

The log shall be kept for a minimum of five calendar years prior to the current year and be made available to District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year

**[RULE 1110.2, 7-9-2010; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;
RULE 1470, 6-1-2007]**

[Devices subject to this condition : D81]