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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

University of California, Berkeley  
317 University Hall, #1150  
Berkeley, CA 94720

Location: Berkeley Campus  
Berkeley, CA 94720

S#	DESCRIPTION	[Schedule]	PAID
2	Boiler for Space Heat only, 137MM BTU/hr max, Multifuel Boiler No.2 (Bldg N of Evans Field 1st Fl) Emissions at: P2 Stack	[B]	4455
3	Boiler for Space Heat only, 135MM BTU/hr max, Multifuel Boiler No. 3 (Bldg N of Evans Field 1st Fl) Emissions at: P3 Stack	[B]	4390
4	Boiler for Space Heat only, 135MM BTU/hr max, Multifuel Boiler No. 4 (Bldg N of Evans Field 1st Fl) Emissions at: P4 Stack	[B]	4390
62	Standby Diesel engine, 764 hp, Caterpillar, 966 cu in Standby Diesel Generator (Crossroads) (Central Dining)	[B]	246
63	Standby Diesel engine, 765 hp, Detroit Diesel, 972 cu in Standby Diesel Generator (Baker Hall) (Barker Hall, Corner of Hearst Ave. & Oxf)	[B]	271
64	Standby Diesel engine, 117 hp, Caterpillar, 504 cu in Standby Diesel (Birge) (Birge Hall, 5 ft from Birge Hall)	[B]	246
65	Standby Diesel engine, 1135 hp, Cummins, 1860 cu in Standby Diesel Generator- Res 3 (IDA-Sproul Hall, Dana at Durant)	[B]	271
100	Spray booth, H.V.L.P., 7.58 gal/yr solvent Facility-wide Painting Operations	[E]	577

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

S#	DESCRIPTION	[Schedule]	PAID
105	Standby Diesel engine, 116 hp, Caterpillar, 238 cu in Emergency Diesel Generator (Haas Pavilion) (Hass Pavilion)	[B]	246
106	Standby Diesel engine, 116 hp, Caterpillar, 238 cu in Emergency Diesel Generator (Valley Of Life Sciences Building)	[B]	271
107	Standby Diesel engine, 805 hp, Cummins, 1710 cu in Emergency Diesel Generator (Koshland) (Koshland Hall)	[B]	293
108	Standby Diesel engine, 805 hp, Cummins Emergency Diesel Generator (Valley Life Sciences Addition) (VSLA, Museum of Paleontology)	[B]	293
109	Standby Diesel engine, 671 hp, Detroit Diesel Emergency Diesel Generator (Tan) (Tan Kah Kee Hall)	[B]	271
110	Standby Diesel engine, 402 hp, Volvo Penta, 9.6 cu in Emergency Diesel Generator (Northwest Animal Facility - North) (S. NWF, Near Barker Hall)	[B]	271
111	Standby Diesel engine, 385 hp, Ford Emergency Diesel Generator (Doe-Moffitt Stacks)	[B]	271
112	Standby Diesel engine, 335 hp, Caterpillar Emergency Diesel Generator (Res 1-1) (Res 1-1)	[B]	271
113	Standby Diesel engine, 335 hp, Caterpillar Emergency Diesel Generator (Res 1-2) (Res 1-2)	[B]	271
114	Standby Diesel engine, 335 hp, Caterpillar Emergency Diesel Generator (Res 2-1) (Res 2-1)	[B]	271
115	Standby Diesel engine, 335 hp, Caterpillar Emergency Diesel Generator (Res 2-2) (Res2-2 2-2)	[B]	271
116	Standby Diesel engine, 335 hp, Detroit Diesel Emergency Diesel Generator (Tang Center) (Tang Center)	[B]	271
117	Standby Diesel engine, 335 hp, Detroit Diesel Emergency Diesel Genertaor (Minor Addition) (Minor Hall)	[B]	271



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

S#	DESCRIPTION	[Schedule]	PAID
118	Standby Diesel engine, 335 hp, Allis-Chalmers Emergency Diesel Generator (NAAF, North)	[B]	271
120	Standby Diesel engine, 169 hp, John Deere Emergency Diesel Generator (Sproul) (Sproel Hall, Barrow Laneul Hall, Barrow L)	[B]	271
121	Standby Diesel engine, 168 hp, Allis-Chalmers, 516 cu in Emergency Diesel Generator (International House) (I-Housenternational House)	[B]	246
122	Standby Diesel engine, 168 hp, John Deere Emergency Diesel Generator (Silver Space Add.) (Silver Space Science Add)	[B]	271
123	Standby Diesel engine, 168 hp, Cummins, 505 cu in Emergency Diesel Generator (Doe Library - Bancroft) (Doe Library)	[B]	271
124	Standby Diesel engine, 168 hp, Cummins Emergency Diesel Generator (Field Station for Behavioral Rsrch) (Animal Behavior Research Sation FS)	[B]	271
125	Standby Diesel engine, 166 hp, Caterpillar Emergency Diesel Generator (Hazardous Materials Facility) (HMF Humanities Microcomputer Fac.)	[B]	271
126	Standby Diesel engine, 107 hp, Cummins Emergency Diesel Generator (Caesar Chavez) (Cesar Chavez Student Learning Ctr)	[B]	271
128	Standby Diesel engine, 67 hp, EPA# GKMCL3.41D43, John Deere Emergency Diesel Generator (Donner) (Donner Laboratory)	[B]	246
129	Standby Diesel engine, 67 hp, Cummins Emergency Standby Generator (Birge Hall)	[B]	246
130	Standby Diesel engine, 277 hp, Cummins, 504 cu in Emergency Diesel Generator (Hildebrand) (Hildebrand Hall H)	[B]	246
131	Standby Diesel engine, 116 hp, Caterpillar, 238 cu in Emergency Diesel Generator (Recreational Sports Facility) (HASS, Across from HASS Pavilion)	[B]	246
132	Standby Diesel engine, 116 hp, Caterpillar, 238 cu in Emergency Diesel Generator (Mulford/Morgan) (Morgan Hall, S Side)	[B]	246



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

S#	DESCRIPTION	[Schedule]	PAID
133	Standby Diesel engine, 955 hp, Cummins, 912 cu in Emergency Diesel Generator (Hearst Memorial Mining Building) (HMMB, NE Corner)	[B]	271
139	Standby Reciprocating engine, 60 hp, Ford Emergency Electrical Generator (Moffitt Library - Basement) (Doe & Moffitt Libraries, Graduate SVC)	[B]	246
140	Standby Reciprocating engine, 60 hp, 260 cu in Emergency Electrical Generator (University Hall) (University Hall)	[B]	246
142	Standby Diesel engine, 382 hp, Caterpillar, 638 cu in Emergency Diesel Generator, Res 1-3 (btwn Chenney & Deutsch Halls) Abated by: A142 Catalyzed Diesel Particulate Filter	[B]	246
143	Standby Diesel engine, 382 hp, Caterpillar, 638 cu in Emergency Diesel Generator, Res 2-3 (btwn Cunningham & Ehrman Halls) Abated by: A143 Catalyzed Diesel Particulate Filter	[B]	246
144	Standby Diesel engine, 2936 hp, Kohler, 3967 cu in Emergency Diesel Generator (Earl Warren Hall) (2195 Hearst Ave.) Abated by: A144 Non-Cat. Diesel Part. Filter w/ Active	[B]	633
145	Standby Diesel engine, 2848 hp, EPA# 3CPXL78.1ERK Emergency Diesel Generator (Stanley Hall) (Stanley Hall QB3)	[B]	681
146	Standby Diesel engine, 750 hp, EPA# 5CEXL015.AAB, Cummins Emergency Diesel Generator (Underhill Parking Lot) (Underhill Parking and Field)	[B]	246
148	Standby Diesel engine, 2206 hp, EPA# 7CPXL58.6T2E Emergency Diesel Generator (Sutarja Dai Hall) (O'Brien Hall) Emissions at: P8 Stack	[B]	511
149	Standby Diesel engine, 2561 hp, EPA# 8MDDL95.4XTR Emergency Diesel Generator (Li Ka Shing) (Li Ka Shing Center) Emissions at: P149 Stack	[B]	632
150	Standby Diesel engine, 250 hp, EPA# ACEXL0409AAB, Cummins Emergency Diesel Generator Set (Barrows) (Barrows Hall, SW Corner) Emissions at: P150 Stack	[B]	271





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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

S#	DESCRIPTION	[Schedule]	PAID
151	Standby Reciprocating engine, 66.5 hp, General Motors Standby Generator Set - Silver Space Sciences (Silver Space Sciences) Emissions at: P9 Stack	[B]	246
152	Standby Diesel engine, 904 hp, AB Volvo, 984 cu in Standby Emergency Diesel Generator Set (Energy Biosciences Bldg) (Energy Biosciences Bidg) Emissions at: P152 Stack	[B]	271
153	Standby Diesel engine, 197 hp, EPA# AJDXL06.8104, John Deere Standby Generator Set - Maximino Martinez Commons (Maximino Martinez Commons) Emissions at: P153 Stack	[B]	246
154	Standby Diesel engine, 97 hp, EPA# BJDXL03.0113, John Deere Emergency Standby Diesel Generator Set (EBRCSA) Emissions at: P154 Stack	[B]	246
155	Standby Diesel engine, 1490 hp, EPA# BCEXL030.AAD, Cummins Emergency Diesel Generator Set (California Memorial Stadium) (Memorial Stadium, Gridiron Way) Emissions at: P155 Stack	[B]	386
156	Standby Diesel engine, 197 hp, EPA# DJDXL06.8120.0 Standby Diesel Generator Set (Campbell Hall) (Campbell Hall) Emissions at: P10 Stack	[B]	246
157	Standby Diesel engine, 538 hp, EPA# DJDXL13.5103, John Deere Emergency Standby Diesel Generator Set (MLK Eshleman Hall) Emissions at: P157 Stack	[B]	246
158	Standby Diesel engine, 762 hp, EPA# DPKXL15.2TA2, Perkins Emergency Standby Diesel Generator Set (Berkeley Art Museum) (BAM/PFA, Center & Oxford) Emissions at: P11 Stack	[B]	271
159	Standby Reciprocating engine, 99.58 hp, EPA# DGNXB06.82L5 Emergency Standby Natural Gas Generator Set (ETCHEVERRY) Emissions at: P159 Stack	[B]	246
160	Standby Diesel engine, 480 hp, EPA# ECPXL08.8NZS Emergency Standby Diesel Generator Set (Lawrence Hall of Science) Emissions at: P160 Stack	[B]	271



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

S#	DESCRIPTION	[Schedule]	PAID
161	Standby Diesel engine, 98.6 hp, EPA# 7SZXL04.3GTG Portable Emergency Diesel Generator (Edwards Stadium, engine test location) Emissions at: P161 Stack	END USE b 12-31-19	123
162	Standby Diesel engine, 324 hp, EPA# FCEXL0409AAD, Cummins Emergency Diesel Generator Set (Chou Hall, Formerly Haas NAB) (HAAS New Academic Building) Emissions at: P162 Stack	[B]	271
163	Standby Diesel engine, 762 hp, EPA# GCPXL15.2NZS Stationary Emergency Diesel Engine Generator Set (2150 Berkeley Way) Abated by: A163 Unclassified Abatement Device Emissions at: P163 Stack	[B]	246
200	Standby Diesel engine, 950 hp, General Motors, 1472 cu in Emergency Standby Diesel Generator Set Emissions at: P200 Stack	[B]	346
201	Turbine, Cogeneration, 244MM BTU/hr max, Multifuel Gas Turbine in combined cycle cogeneration plant Emissions at: P201 Stack	[B]	8736
202	Inprocess Fuel Combustion, 84MM BTU/hr max, Natural gas Duct Burner Emissions at: P201 Stack	[B]	3005

61 Permitted Sources

\*\*\* See attached Permit Conditions \*\*\*



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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ALL SOURCES are subject to Condition ID# 21880

Source#      Subject to Condition Numbers  
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62	22826
63	22826
64	22826
65	22826
105	22820
106	22820
107	22820
108	22820
109	22830
110	22830
111	22820
112	22820
113	22820
114	22820
115	22820
117	22820
118	22830
120	22820
121	22820
122	22820
123	22820
124	22820
125	22820
126	22820
128	22820
129	22820
130	22850
131	22850
132	22850
133	22826
139	19533
140	19533
142	22826
143	22826
144	22826
145	22728
146	22826
148	22850



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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Source#	Subject to Condition Numbers
149	22850
150	22850
151	23112
152	22850
153	22850
154	22850
155	22850
156	22850
157	22850
158	22850
159	23107
160	22850
161	26064
162	22850
163	22850, 21880, 26537

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149	22850
150	22850
151	23112
152	22850
153	22850
154	22850
155	22850
156	22850
157	22850
158	22850
159	23107
160	22850
161	26064
162	22850
163	22850, 21880, 26537

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.





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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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COND# 19533 applies to S#'s 139, 140

CONDITIONS FOR NON "ESSENTIAL" EMERGENCY ENGINES:

Stationary Equipment Requirements

1. Hours of Operation: The owner/operator shall operate the emergency standby engine(s) only to mitigate emergency conditions or for reliability-related activities. Operating while mitigating emergency conditions is unlimited. Operating for reliability-related activities is limited to 50 hours per any calendar year. [Basis: Regulation 9-8-330]  
"Emergency Conditions" is defined as any of the following:
  - a. Loss of regular natural gas supply.
  - b. Failure of regular electric power supply.
  - c. Flood mitigation.
  - d. Sewage overflow mitigation.
  - e. Fire.
  - f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.
 [Basis: Regulation 9-8-231]

"Reliability-related activities" is defined as any of the following:

- a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
  - b. Operation of an emergency standby engine during maintenance of a primary motor.
- [Basis: Regulation 9-8-232]
2. The owner/operator shall equip the emergency standby engine(s) with either:
    - a. a non-resettable totalizing meter that measures the hours of operation for the engine; or
    - b. a non-resettable fuel usage meter, the maximum hourly fuel rate shall be used to convert fuel usage to hours of operation.
 [Basis: Regulation 9-8-530]
  3. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 2 years and shall make the log available for District inspection upon request:



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

- =====
- a. Hours of operation (total).
  - b. Hours of operation (emergency).
  - c. For each emergency, the nature of the emergency condition.
  - d. Fuel usage for engine(s) if a non-resettable fuel usage meter is utilized.
- [Basis: Regulations 9-8-530 and 1-441]

COND# 21880 *applies to ALL SOURCES at this plant.*

UC Berkeley, Plant #59, has a synthetic minor operating permit. This operating permit covers all sources at the facility.

The following conditions establish the federally enforceable permit terms that ensure this plant is classified as a Synthetic Minor Facility under District Regulation 2, Rule 6, Major Facility Review; and ensure it is not subject to the permitting requirements of Title V of the Federal Clean Air Act as amended in 1990, and 40 CFR Part 70. All applications submitted by the applicant and all modifications to the plant's equipment after issuance of the synthetic minor permit must be evaluated to ensure that the facility will not exceed the synthetic minor general limits below, and that sufficient monitoring, recordkeeping, and reporting requirements are imposed to ensure enforceability of the limits.

Any revision to a condition establishing this plant's status as a Synthetic Minor Facility or any new permit term that would limit emissions of a new or modified source for the purpose of maintaining the facility as a synthetic minor, must undergo the procedures pursuant to Regulation 2, Rule 6, Section 423. The basis for the synthetic minor conditions is an emission limit for regulated air pollutants of less than 95 tons per year, an emission limit for a single hazardous air pollutant of less than 9 tons per year, and an emission limit for a combination of hazardous air pollutants of less than 23 tons per year.

Following is a list of sources which are applicable to this synthetic minor permit: S2-S4, S62-S65, S100, S105-S118, S120-S126, S128-S133, S139-S146 and S148-S163.



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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Synthetic Minor Conditions:

1. The owner/operator shall ensure that this facility, subject to a Synthetic Minor Operating Permit, shall emit no more than the following quantities of emissions in any 12 month period:
  - a. 95 percent of the major source thresholds for regulated air pollutants (excluding HAPs), except for precursor organic compounds and NOX;
  - b. 9 tons per year of any single HAP;
  - c. 23 tons per year of any combination of HAPs;
  - d. 90 percent of any lesser threshold for a single HAP as the U.S. EPA or District may establish by rule. These limits shall include emissions from permitted, unpermitted, portable, and temporary sources at the facility except those sources defined as non-road engines as defined in 40 CFR 89 and motor vehicles as defined in the California Vehicle Code;
  - e. 35 tons per year of precursor organic compounds; and,
  - f. 35 tons per year of NOX.

. [Basis: Synthetic Minor and Regulation 2-2-303]
  
2. The owner/operator shall not emit more than 95 tons of any regulated air pollutant into the atmosphere during any consecutive 12-month period. [Basis: Synthetic Minor]
  
3. Boilers (S2-S4):
  - a. In addition to the times of operation allowed in Permit Condition 14330, boilers S2-S4 may also run for a period of up to 4 hours prior to expected winter operations for the purpose of ensuring boiler operational reliability and to test for their CO emissions. This will start the 168-hour clock for CO monitoring.
  - b. Within each 168 hours of operation at each boiler, the owner/operator shall monitor the boiler's CO readings. The 168 hour clock will restart at the end of each test.
  - c. The owner/operator shall maintain records of the CO monitoring data.
  - d. All records must be kept on site and made available for District inspection for at least 5 years.



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PERMIT EXPIRATION DATE

Plant# 59

JUL 1, 2020

\*\*\* PERMIT CONDITIONS \*\*\*

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- e. The owner/operator shall use each CO reading to ensure that the CO emission factor is 0.084 lb/MMBtu or less if burning natural gas and 0.036 lb/MMBtu or less when burning fuel oil. If the reading exceeds these values then the higher value shall be used in the monthly calculations for the following month or months, until the next 168 hr reading is performed.
  - f. If the CO emission exceeds the 400 ppmv (0.29 lb/MMBtu) limit in BAAQMD Regulation 9-7, the exceedance shall be considered a violation and shall be reported to the Director of Enforcement within 10 days of the reading.
- . [Basis: Synthetic Minor and Recordkeeping]
4. Stationary Emergency Diesel Engine Generators (S62-S65, S105-S118, S120-S126, S128-S133, S139-S146 and S148-S163):
- a. The owner/operator shall ensure each stationary emergency diesel engine generator will operate no more than their respective permitted hours for reliability-related testing.
  - b. The owner/operator shall record and maintain the number of hours of operation and the hp rating for each generator on a monthly basis. In addition, the owner/operator shall identify whether the recorded engine operation is for maintenance or production.
  - c. Fuel oil sulfur content shall not exceed 0.5% by weight.
  - d. All records must be kept on site and made available for District inspection for at least 5 years.
- . [Basis: Synthetic Minor]
5. Plant Wide Coating Operations (S100):
- a. The total amount of non-water based coating used at S100, miscellaneous painting operations, shall not exceed 80 gallons during any consecutive 12 month period. The total amount of water based coating used at S100 shall not exceed 250 gallons during any consecutive 12-month period. All coating usage must meet the requirements of the Districts Regulation 8 coatings rules.
  - b. The net amount of cleanup and surface preparation solvent used at S100 shall not exceed 10 gallons





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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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during any consecutive 12-month period. The net amount of organic thinner used at S100 shall not exceed 10 gallons during any consecutive 12 month period.

- c. The owner/operator shall maintain the following records in a District-approved log:
- 1) Net clean-up solvent used at S100, in gallons/day;
  - 2) Total surface preparation solvent used at S100, in gallons/day;
  - 3) Cumulative monthly totals of above daily usage rates, in gallons/month; and,
  - 4) All applicable coating and thinner usages as specified in Regulation 8 rules.

These records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made. [Basis: Cumulative Increase and Recordkeeping]

6. The owner/operator shall calculate and maintain records on a monthly basis of each regulated air pollutant emitted into the atmosphere for all sources at the facility. Each regulated air pollutant must be totaled on a consecutive 12-month period to ensure compliance with Part #2 of this condition. The following factors shall be used:

- a. For Boilers S2-S4

The owner/operator shall use the AP-42 emission factors for the following pollutants, \*except for the Regulation 9-7 limit for NOX:

AP-42 Factors for burning natural gas	
Pollutant	Emission Factor (lb/MMBtu)
CO	Higher of 0.084 or measured value from previous CO reading conducted every 168 hours
*NOX	0.036
POC	0.0055

AP-42 Factors for burning fuel oil	
Pollutant	Emission Factor (lb/MMBtu)
CO	0.036
*NOX	0.048
POC	0.0025





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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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- b. For Engines S64, S110-S118, S120-S126, and S128--129
- 1) Records of operation for each source shall be totaled monthly to determine emissions of NOX and CO. Records shall be retained on site and made available for inspection by District personnel for a period of 5 years from the date on which a record is made.
  - 2) Monthly NOX and CO emissions shall be calculated using the following emission factors:  
NOX 0.031 lb/hp-hr  
CO 0.0067 lb/hp-hr
- c. For Engines S105-S109
- 1) Records of operation for each source shall be totaled monthly to determine emissions of NOX and CO. Records shall be retained on site and made available for inspection by District personnel for a period of 5 years from the date on which a record is made.
  - 2) Monthly NOX and CO emissions shall be calculated using the following emission factors:  
NOX 0.024 lb/hp-hr  
CO 0.0055 lb/hp-hr
- d. For Engines S62, S63, S65, and S130-S133
- 1) Records of operation for each source shall be totaled monthly to determine emissions of NOX and CO. Records shall be retained on site and made available for inspection by District personnel for a period of 5 years from the date on which a record is made.
  - 2) Monthly NOX and CO emissions shall be calculated using the following emission factors:  
NOX 0.015 lb/hp-hr  
CO 0.0019 lb/hp-hr
- e. For Engines S139-S140
- 1) Records of operation for each source shall be totaled monthly to determine emissions of NOX and CO. Records shall be retained on site and made available for inspection by District personnel for a period of 5 years from the date on which a record is made.
  - 2) Monthly NOX and CO emissions shall be calculated



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

using the following emission factors:

NOX 0.002 lb/hp-hr  
CO 0.0014 lb/hp-hr

- f. For Engines S141-S143
- 1) Records of operation for each source shall be totaled monthly to determine emissions of NOX and CO. Records shall be retained on site and made available for inspection by District personnel for a period of 5 years from the date on which a record is made.
  - 2) Monthly NOX and CO emissions shall be calculated using the following emission factors:
 

NOX 0.0113 lb/hp-hr  
CO 0.0015 lb/hp-hr

- g. For Engine S144
- 1) Records of operation for each source shall be totaled monthly to determine emissions of NOX and CO. Records shall be retained on site and made available for inspection by District personnel for a period of 5 years from the date on which a record is made.
  - 2) Monthly NOX and CO emissions shall be calculated using the following emission factors:
 

NOX 0.0128 lb/hp-hr  
CO 0.0013 lb/hp-hr

- h. Other Internal Combustion Engines permitted after 2004

In the absence of actual source test data or District approved emission factors, the owner/operator shall use the AP-42 emission factors for the following pollutants:

Pollutant Emission Factor (lb/hp-hr)

CO 0.00668  
NOX 0.031  
POC 0.0027

- i. Surface Coating and Solvent Cleaning For surface coatings and cold cleaner solvents, the owner/operator shall use the manufacturers chemical



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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speciation data or the MSDS information to calculate  
VOC. [Basis: Synthetic Minor and Recordkeeping]

7. The owner/operator shall calculate and maintain records on a monthly basis of the quantity of each hazardous air pollutant (HAP) emitted into the atmosphere from all sources at the facility. The HAPs must be totaled on a consecutive 12-month period to ensure compliance with Part #1 of this condition. In the absence of actual source test data or District approved emissions factors, the owner/operator shall use the California Air Resources Board CATEF database emission factors or AP-42 factors for the following pollutants.

Boilers burning natural gas (CATEF)

Pollutant Emission Factor (lb/MMcf)

Benzene 0.00215

Acetaldehyde 0.00847

Formaldehyde 0.0696

Benzaldehyde 0.0157

Boilers burning fuel oil (CATEF)

Pollutant Emission Factor (lb/1000 gallons)

Benzene 0.00262

Formaldehyde 0.0533

Hexane 0.00126

Toluene 0.00143

Xylene 0.00155

Diesel Firing Internal Combustion Engines (AP-42)

Pollutant Emission Factor (lb/MMBtu-hr)

Benzene 0.00000876

Toluene 0.00000384

Xylene 0.00000267

For surface coatings and cold cleaner solvents, the owner/operator shall use the manufacturers chemical speciation data or the MSDS information to calculate HAPs. [Basis: Synthetic Minor and Recordkeeping]

8. The owner/operator shall keep records of other unpermitted, temporary, or portable sources (except emissions from non-road engines as defined by 40 CFR 89) if the total emissions from these sources exceed 2 tons



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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per year of any single regulated air pollutant or 400 pounds per year of a combination of hazardous air pollutants. [Basis: Synthetic Minor and Recordkeeping]

9. The Owner/Operator shall prepare an annual emissions report. The report shall contain the following items for the year ending Feb 28:
- Total HAP emissions for the year;
  - Emissions of each HAP for the year;
  - Total NOX, CO, and VOC emissions;
  - Usage of fuel oil and natural gas at boilers;
  - Usage of fuel at engines; and,
  - Any regulated air pollutant required by Part #7 of this condition.

This report shall be submitted to the Director of Compliance and Enforcement by February 28 of each year. [Basis: Synthetic Minor and Recordkeeping]

The owner/operator shall report non-compliance with any of the above conditions in writing to the Director of Compliance and Enforcement within 10 calendar days of discovery of non-compliance.

COND# 22728 applies to S# 145

Engine Family: 3CPXL78.1ERK  
Engine Model Number: 3516BTA  
Standby Power Rating: 2848 BHP  
Rated Speed: 1800 RPM

1. The owner or operator shall operate S-145, stationary emergency standby engine, only to mitigate emergency conditions or for reliability-related activities (maintenance and testing). Operating while mitigating emergency conditions and while emission testing to show compliance with this part is unlimited. Operation for reliability-related activities is limited to 26 hours per year.

(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e) (2) (A) 3)





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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

- =====
2. The Owner/Operator shall equip the emergency standby engine(s) with a non-resettable totalizing meter with a minimum display capability of 9,999 hours that measures the hours of operation for the engine.  
(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, Subsection (e) (2) (G)1))
  3. The Owner/Operator shall install a Diesel Particulate Filter (A-145) and use it to abate the emissions of unburned hydrocarbons, carbon monoxide and particulates emitted from the S-145 diesel engine at all times that the engine is operated. (basis: TBACT, Toxic Risk Screen)
  4. The Owner/Operator shall install a backpressure monitor that notifies the owner or operator when the high back pressure limit of the engine is approached.  
(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, Subsection (e) (2) (G)2)
  5. Records: The owner/operator shall maintain the following monthly records in a District -approved log for at least 36 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's locations, and made immediately available to the District staff upon request.
    - a. Hours of operation (maintenance and testing).
    - b. Hours of operation for emission testing to show compliance with emission limits.
    - c. Hours of operation (emergency).
    - d. For each emergency, the nature of the emergency condition.
    - e. Fuel usage for each engine. The Owner/ Operator shall document fuel use through the retention of fuel purchase records that account for all fuel used in the engine and all fuel purchased for use





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**PERMIT EXPIRATION DATE**

Plant# 59

JUL 1, 2020

\*\*\* PERMIT CONDITIONS \*\*\*

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in the engine, and, at a minimum, contain the following information for each individual fuel purchase transaction:

- I. Identification of the fuel purchased as either CARB Diesel, or an alternative diesel fuel that meets the requirements of the Verification Procedure, or an alternative fuel, or CARB Diesel fuel used with additives that meet the requirements of the Verification Procedure, or any combination of the above;
  - II. Amount of fuel purchased;
  - III. Date when the fuel was purchased;
  - IV. Signature of owner or operator or representative of owner or operator who received the fuel; and
  - V. Signature of fuel provider indicating fuel was delivered.
- f. CARB Certification Executive Order for the engine.  
(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, Subsection (e)(4)(I), Regulation 1-441, Toxics)

COND# 22820 applies to S#'s 105, 106, 107, 108, 111, 112, 113, 114, 115, ...

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing.  
Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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[Basis: Title 17, California Code of Regulations,  
section 93115, ATCM for Stationary CI Engines]

- 3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

- 4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).

[Basis: Title 17, California Code of Regulations,  
section 93115, ATCM for Stationary CI Engines]

- 5. At School and Near-School Operation:  
If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

COND# 22826 applies to S#'s 62, 63, 64, 65, 133, 142, 143, 144, 146

1. The owner/operator shall not exceed 26 hours per year per engine for reliability-related testing.  
[Basis: "Regulation 2-5]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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CI Engines]

- 4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).
 [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

- 5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in





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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.  
 [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

COND# 22830 applies to S#'s 109, 110, 118

1. The owner/operator shall not exceed 30 hours per year per engine for reliability-related testing.  
 [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b) (3) (A) (1) (b)] or [Basis: Regulation 2-5]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.  
 [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
 [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the





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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

COND# 22850 applies to S#'s 130, 131, 132, 148, 149, 150, 152, 153, 154, . . .

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.



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PERMIT EXPIRATION DATE

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation:  
If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]



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PERMIT EXPIRATION DATE

Plant# 59

JUL 1, 2020

\*\*\* PERMIT CONDITIONS \*\*\*

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COND# 23107 applies to S# 159

1. The owner or operator shall operate the stationary emergency standby engine only to mitigate emergency conditions or for reliability-related activities (maintenance and testing). Operating while mitigating emergency conditions and while emission testing to show compliance with this part is unlimited. Operating for reliability-related activities are limited to 50 hours per year.  
(Basis: Emergency Standby Engines, Hours of Operation Regulation 9-8-330)
2. The Owner/Operator shall equip the emergency standby engine(s) with: a non-resettable totalizing meter that measures hours of operation or fuel usage.  
(Basis: Emergency Standby Engines, Monitoring and Record keeping 9-8-530)
3. The Owner/Operator shall not operate unless the natural gas fired engine is abated with a Catalytic Converter.  
(Basis: Cumulative Increase)
4. Records: The Owner/Operator shall maintain the following monthly records in a District-approved log for at least 24 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation (maintenance and testing).
  - b. Hours of operation for emission testing.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage or operating hours for engine.
 (Basis: Emergency Standby Engines, Monitoring and Recordkeeping 9-8-530)

COND# 23112 applies to S# 151

1. The owner or operator shall operate the stationary emergency standby engine, only to mitigate emergency conditions or for reliability-related activities





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**PERMIT EXPIRATION DATE**

Plant# 59

JUL 1, 2020

\*\*\* PERMIT CONDITIONS \*\*\*

=====

(maintenance and testing). Operating while mitigating emergency conditions and while emission testing to show compliance with this part is unlimited. Operating for reliability related activities are limited to 50 hours per year. (Basis: Emergency Standby Engines, Hours of Operation Regulation 9-8-330)

2. The Owner/Operator shall equip the emergency standby engine(s) with: a non-resettable totalizing meter that measures hours of operation or fuel usage. (Basis: Emergency Standby Engines, Monitoring and Record keeping 9-8-530)
3. Records: The Owner/Operator shall maintain the following monthly records in a District approved log for at least 36 months from the date of entry, (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation (maintenance and testing).
  - b. Hours of operation for emission testing.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for engine.
 (Basis: Emergency Standby Engines, Monitoring and Recordkeeping 9-8-530)

COND# 26064 applies to S# 161

1. The owner/operator shall operate at all time the mobile equipment in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment. The operation of the engines during emergencies is not subject to the requirements of Regulation 2, Rule 5. [Basis: Portable Eligibility Requirements]
2. The engine may not remain at any location as defined by the Portable Engines ATCM section 93116.2(a)(21),





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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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Nonetheless, the engines must be tested at the location proposed in application 27150

[Basis: Portable Eligibility Requirements, Toxics]

3. The owner/operator shall not exceed 50 hours per year per engine for reliability-related activities.  
[Basis: Cumulative Increase, Toxics]
4. The owner/operator shall operate only for the following purposes:
  - a. to mitigate emergency conditions
  - b. for emission testing to demonstrate compliance with a District, State, or Federal emission limits, of
  - c. for reliability-related activities (maintenance and other testing, but excluding emission testing)  
Operating while mitigating emergency conditions or while emission testing to show compliance with District, State, or Federal emission limits is not limited.  
[Basis: "Portable Engines ATCM" section 93116, title 17, CA Code of Regulations, subsection (b)(1)(B)]
5. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
[Basis: "Portable Engines ATCM" section 93116.4, title 17, CA Code of Regulations, subsection c(2)(A)]
6. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least five years from the date of entry. Log entries shall be retained on-site at a central location, and made immediately available to the District staff upon request.
  - a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).



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**PERMIT EXPIRATION DATE**

JUL 1, 2020

Plant# 59

\*\*\* PERMIT CONDITIONS \*\*\*

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[Basis: "Portable Engines ATCM" section 93116.4, title 17, CA Code of Regulations, subsection c(2)]

7. The owner/operator of S-161 shall not operate the engine after December 31, 2019.

[Basis: "Portable Engines ATCM" section 93116.3, title 17, Code of Regulations, subsection (b) (3)]

8. The engine(s) shall not be operated within 1,000 feet of the outer boundary of any K-12 school site, unless the applicable notice requirements of Health and Safety Code Section 42301.6 have been met.

[Basis: Regulation 2-1-220.4]

COND# 26537 applies to S# 163

1. The owner/operator shall abate S-163, Stationary Emergency Diesel Engine-Generator Set, at all times of operation with the properly maintained A-163, Rypos, Inc. Hybrid Active Diesel Particulate Filter and Oxidation Catalyst System. [Basis: Cumulative Increase and Regulation 2-5]

2. The owner/operator shall comply with all the requirements in California Air Resources Board Executive Order DE-07-001-06. [Basis: CARB Executive Order DE-07-001-06]

~~~~~ END OF CONDITIONS ~~~~~

| S#  | Source Description                         | Annual Average lbs/day |     |     |     |    |
|-----|--------------------------------------------|------------------------|-----|-----|-----|----|
|     |                                            | PART                   | ORG | NOx | SO2 | CO |
| 2   | Boiler No.2                                | .6                     | 0   | 7   | .11 | 8  |
| 3   | Boiler No. 3                               | .2                     | 0   | 2   | .04 | 3  |
| 4   | Boiler No. 4                               | .4                     | 0   | 5   | .08 | 5  |
| 62  | Standby Diesel Generator (Crossroads)      | -                      | -   | 0   | -   | -  |
| 63  | Standby Diesel Generator (Baker Hall)      | -                      | 0   | 0   | -   | -  |
| 64  | Standby Diesel (Birge)                     | -                      | -   | 0   | -   | -  |
| 65  | Standby Diesel Generator- Res 3            | -                      | -   | 0   | -   | -  |
| 100 | Facility-wide Painting Operations          | -                      | 0   | -   | -   | -  |
| 105 | Emergency Diesel Generator (Haas Pavilion) | -                      | -   | 0   | -   | -  |
| 106 | Emergency Diesel Generator                 | -                      | -   | 0   | -   | 0  |
| 107 | Emergency Diesel Generator (Koshland)      | -                      | 0   | 1   | -   | 0  |
| 108 | Emergency Diesel Generator (Valley Life Sc | -                      | 0   | 1   | -   | 0  |
| 109 | Emergency Diesel Generator (Tan)           | -                      | 0   | 0   | -   | 0  |
| 110 | Emergency Diesel Generator (Northwest Anim | -                      | 0   | 0   | -   | 0  |
| 111 | Emergency Diesel Generator                 | -                      | 0   | 0   | -   | 0  |
| 112 | Emergency Diesel Generator (Res 1-1)       | -                      | -   | 0   | -   | 0  |
| 113 | Emergency Diesel Generator (Res 1-2)       | -                      | -   | 0   | -   | 0  |
| 114 | Emergency Diesel Generator (Res 2-1)       | -                      | -   | 0   | -   | 0  |
| 115 | Emergency Diesel Generator (Res 2-2)       | -                      | -   | 0   | -   | 0  |
| 116 | Emergency Diesel Generator (Tang Center)   | -                      | 0   | 0   | -   | 0  |
| 117 | Emergency Diesel Genertaor (Minor Addition | -                      | 0   | 0   | -   | 0  |
| 118 | Emergency Diesel Generator                 | -                      | 0   | 0   | -   | 0  |
| 120 | Emergency Diesel Generator (Sproul)        | -                      | -   | 0   | -   | 0  |
| 121 | Emergency Diesel Generator (International  | -                      | -   | 0   | -   | -  |
| 122 | Emergency Diesel Generator (Silver Space A | -                      | 0   | 0   | -   | 0  |
| 123 | Emergency Diesel Generator (Doe Library -  | -                      | 0   | 0   | -   | 0  |
| 124 | Emergency Diesel Generator (Field Station  | 0                      | 0   | 1   | -   | 0  |
| 125 | Emergency Diesel Generator (Hazardous Mate | -                      | 0   | 0   | -   | 0  |
| 126 | Emergency Diesel Generator (Caesar Chavez) | -                      | -   | 0   | -   | 0  |
| 128 | Emergency Diesel Generator (Donner)        | -                      | -   | 0   | -   | 0  |
| 129 | Emergency Standby Generator                | -                      | -   | -   | -   | -  |
| 130 | Emergency Diesel Generator (Hildebrand)    | -                      | -   | 0   | -   | -  |
| 131 | Emergency Diesel Generator (Recreational S | -                      | -   | 0   | -   | -  |
| 132 | Emergency Diesel Generator (Mulford/Morgan | -                      | -   | 0   | -   | -  |
| 133 | Emergency Diesel Generator (Hearst Memoria | -                      | -   | 0   | -   | 0  |
| 139 | Emergency Electrical Generator (Moffitt Li | -                      | 0   | 0   | -   | -  |
| 140 | Emergency Electrical Generator (University | -                      | -   | 0   | -   | 0  |
| 142 | Emergency Diesel Generator, Res 1-3        | -                      | -   | 0   | -   | -  |
| 143 | Emergency Diesel Generator, Res 2-3        | -                      | -   | 0   | -   | -  |
| 144 | Emergency Diesel Generator (Earl Warren Ha | -                      | -   | 1   | -   | 0  |
| 145 | Emergency Diesel Generator (Stanley Hall)  | 0                      | 0   | 1   | -   | 0  |
| 146 | Emergency Diesel Generator (Underhill Park | -                      | -   | 0   | -   | -  |
| 148 | Emergency Diesel Generator (Sutarja Dai Ha | -                      | 0   | 0   | -   | 0  |
| 149 | Emergency Diesel Generator (Li Ka Shing)   | -                      | -   | 0   | -   | 0  |
| 150 | Emergency Diesel Generator Set (Barrows)   | -                      | -   | 0   | -   | 0  |
| 151 | Standby Generator Set - Silver Space Scien | -                      | 0   | 0   | -   | -  |
| 152 | Standby Emergency Diesel Generator Set (En | -                      | -   | 0   | -   | 0  |
| 153 | Standby Generator Set - Maximino Martinez  | -                      | -   | -   | -   | -  |
| 154 | Emergency Standby Diesel Generator Set (EB | -                      | -   | -   | -   | -  |
| 155 | Emergency Diesel Generator Set (California | 0                      | 0   | 1   | -   | 0  |

| S#          | Source Description                         | Annual Average lbs/day |     |     |      |      |
|-------------|--------------------------------------------|------------------------|-----|-----|------|------|
|             |                                            | PART                   | ORG | NOx | SO2  | CO   |
| 156         | Standby Diesel Generator Set (Campbell Hal | -                      | -   | -   | -    | -    |
| 157         | Emergency Standby Diesel Generator Set     | -                      | -   | 0   | -    | -    |
| 158         | Emergency Standby Diesel Generator Set (Be | -                      | -   | 0   | -    | 0    |
| 159         | Emergency Standby Natural Gas Generator Se | -                      | 0   | -   | -    | -    |
| 160         | Emergency Standby Diesel Generator Set     | -                      | -   | 0   | -    | 0    |
| 161         | Portable Emergency Diesel Generator        | -                      | -   | 0   | -    | -    |
| 162         | Emergency Diesel Generator Set (Chou Hall, | -                      | -   | -   | -    | 0    |
| 163         | Stationary Emergency Diesel Engine Generat | -                      | 0   | 0   | -    | 0    |
| 200         | Emergency Standby Diesel Generator Set     | -                      | 0   | 1   | -    | 0    |
| 201         | Gas Turbine in combined cycle cogeneration | 63.9                   | 149 | 195 | 2.59 | 871  |
| 202         | Duct Burner                                | 2.1                    | 4   | 31  | .41  | 137  |
| T O T A L S |                                            | 67.3                   | 155 | 248 | 3.23 | 1027 |

\*\* PLANT TOTALS FOR EACH EMITTED TOXIC POLLUTANT \*\*

| Pollutant Name                           | Emissions lbs/day |
|------------------------------------------|-------------------|
| Benzene                                  | .22               |
| Dimethyl formamide                       | .04               |
| Formaldehyde                             | 3.23              |
| Diesel Engine Exhaust Particulate Matter | .14               |