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<tr>
<td>96</td>
<td>Spray booth, Electrostatic (air-atomized), 0 gal/yr solvent</td>
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<td>PAINT SPRAY BOOTH, AIR FILTERS</td>
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<td>97</td>
<td>Misc CHEM, Sand abrasive, .01 tons/hr max</td>
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<td>190</td>
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<td>Soil Vapor Extraction System (Bldg 53 &amp; Bldg 58)</td>
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This document does not permit the holder to violate any BAAQMD regulation or any other law.

Plant#  723

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31 Permitted Sources, 7 Registered Sources, 2 Exempt Sources

*** See attached Permit Conditions ***

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**Plant# 723**

*** PERMIT CONDITIONS ***

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Plant# 723

*** PERMIT CONDITIONS ***

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COND# 13887 applies to S# 188

1. Total wipe cleaning solvent shall not exceed 2095 liters (553 gallons) of precursor organic solvents and 1315 liters (347 gallons) of non-precursor organic solvents in any consecutive 12 month period.

2. Records shall be maintained in a District approved logbook of the amount and type of wipe cleaning solvent used on a quarterly basis. Records shall be maintained for a period of at least 24 months from the date of entry and made readily available to District staff upon request.

COND# 16752 applies to S# 190

Conditions for S-190, Soil Vapor Extraction System at Plant 723, Lawrence Berkeley Lab

1. Source S-190 shall be vented at all times to A-190, two 1000 lb capacity activated carbon vessels arranged in series. Influent vapor flow shall not exceed 215 scfm.

<Offsets>

2. The operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the District’s Source Test Manager at the following locations:

<Recordkeeping>

a. At the inlet to the second to last carbon vessel in series.

b. At the inlet to the last carbon vessel in series.

c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere. When using an FID to monitor breakthrough, readings may be taken with and without a Carbon filter tip fitted on the FID probe. Concentrations measured with the Carbon filter tip in place shall be considered methane for the purpose of these permit conditions.
Plant# 723

*** PERMIT CONDITIONS ***

3. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of Carbon change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted on a monthly basis. The operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels.

Written approval by the District's Permit Services Division must be received by the operator prior to a change to the monitoring schedule. <Recordkeeping>

4. The second to last Carbon vessel shall be changed out with unspent Carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:

<Offsets>

a. 10 % of the inlet stream concentration to the Carbon vessel.
b. 10 ppmv (measured as C1).

5. The last Carbon vessel shall be changed out with unspent Carbon upon detection at its outlet of 10 ppmv (measured as C1). <Offsets>

6. The operator of this source shall maintain the following records for each month of operation of the source:

<Recordkeeping>

a. The hours and times of operation.
b. Each monitor reading or analysis result for the day of operation they are taken.
c. The number of Carbon beds removed from service.

All measurements, records and data required to be maintained by the operator shall be retained and made available for inspection by the District for at least two years following the date the data is recorded.

7. Any exceedance of conditions number 4 and/or 5
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shall be reported to the Enforcement and Compliance Division with the log as well as the corrective action taken. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. <Recordkeeping>

8. Upon final completion of the remediation project, the operator of Source S-190 shall notify the Permit Services Division within two weeks of decommissioning the operation. <Recordkeeping>

COND# 19533 applies to S#’s 210, 211, 215

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]
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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:
   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# 22019 applies to S# 220

1. The Owner/Operator shall install a Diesel Particulate Filter (A-220) and use it to abate the emissions of unburned hydrocarbons, carbon monoxide and particulates emitted from the S-220 diesel engine at all times that the engine is operated.

   (basis: TBACT, Toxic Risk Screen)

COND# 22820 applies to S# 206

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...
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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.
   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
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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]

COND# 22830 applies to S#'s 201, 202, 205, 209, 212, 216

1. The owner/operator shall not exceed 30 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
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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
Plant# 723

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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]

COND# 22850 applies to S#'s 191, 193, 194, 200, 207, 213, 214, 218, 219, ...

1. The owner/operator shall not exceed 50 hours
der 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.
   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
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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]

COND# 24187 applies to S#’s 200, 207, 213

Conditions for S-200 Diesel Generator abated by A-200 Catalyzed Diesel Particulate Filter

S-207 Diesel Generator abated by A-207 Catalyzed Diesel Particulate Filter

S-213 Diesel Generator abated by A-213 Catalyzed Diesel Particulate Filter

Application # 18396, Plant # 723

1. The owner/operator shall operate S-200, S-207 and S-213 Diesel Generators only when abated by A-200, A-207 and A-213 Diesel Particulate Filters (respectively).

[Basis: Cumulative increase]

COND# 25676 applies to S# 224

1. The owner/operator shall abate S-224 by the properly maintained and properly operated A-224
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===================================================================================================

during all times of operation. [Basis: Cumulative Increase]

2. The owner/operator shall properly install and operate a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (d)(2)]

COND# 25772 applies to S# 225

1. The owner/operator shall abate S-225 by the properly maintained and properly operated A-225 during all times of operation. [Basis: Cumulative Increase]

2. The owner/operator shall properly install and operate a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (d)(2)]

COND# 25943 applies to S#'s 226, 227

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. [Basis: Portable Eligibility Requirements]

2. The owner/operator shall not exceed 50 hours per year per engine for reliability-related activities. [Basis: Cumulative Increase, Toxics]

3. The owner/operator cannot operate the portable engine after January 1, 2020 if it does not comply with 93116.3(b)(3). [Basis: "Portable Engines ATCM" Section 93116.3, Title 17, Code of Regulations, Subsection (b)(3)]

4. The owner/operator shall operate only for the following...
Plant# 723

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purposes:

a. To mitigate emergency conditions;
b. For emission testing to demonstrate compliance with a District, State, or Federal emission limits; or,
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 93116.2, Title 17, CA Code of Regulations, Subsection (a)(15)]

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); and,
f. Location and total hours of operation at each off-site location.

[Basis: "Portable Engines ATCM" Section 93116.4, Title 17, CA Code of Regulations, Subsection (c)(2)]

7. The engine(s) shall not be operated within 1,000 feet of
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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]

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ END OF CONDITIONS ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
<table>
<thead>
<tr>
<th>S#</th>
<th>Source Description</th>
<th>Annual Average lbs/day</th>
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<tbody>
<tr>
<td></td>
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<td>PART ORG NOx SO2 CO</td>
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<tr>
<td>96</td>
<td>PAINT SPRAY BOOTH, AIR FILTERS</td>
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<tr>
<td>97</td>
<td>SANDBLAST SHOP</td>
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<td>104</td>
<td>Drying Oven</td>
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<tr>
<td>124</td>
<td>Sulfur Hexafluoride Chamber</td>
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</tr>
<tr>
<td>188</td>
<td>Facility-wide Wipe Cleaning</td>
<td>- 2.4 - -</td>
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<tr>
<td>190</td>
<td>Soil Vapor Extraction System</td>
<td>- - - - -</td>
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<tr>
<td>191</td>
<td>Standby Generator, Cummins 2000DQKC 2-MW</td>
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<tr>
<td>193</td>
<td>Diesel Standby Emergency Generator w/ Cata</td>
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<td>194</td>
<td>Diesel Standby Emergency Generator 150DGFA</td>
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<td>200</td>
<td>Emergency Standby Diesel Generator Set</td>
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<td>Diesel Engine, Detroit Allis model 6V92GDA</td>
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**T O T A L S**

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** PLANT TOTALS FOR EACH EMITTED TOXIC POLLUTANT **

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<td>Isopropyl alcohol</td>
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</tr>
<tr>
<td>Methyl alcohol</td>
<td>.02</td>
</tr>
<tr>
<td>Diesel Engine Exhaust Particulate Matter</td>
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