



**TITLE V FEDERAL OPERATING PERMIT
AND
SMAQMD RULE 201 PERMITS TO OPERATE**

**TITLE V PERMIT NO:
TV2010-20-01**

**PERMIT
ISSUED:**

TBD

**PERMIT
LAST AMENDED:**

N/A

**PERMIT
EXPIRES:**

TBD + 5 years

ISSUED TO:

RagingWire Enterprise Solutions, Inc.
1200 Striker Ave.
Sacramento, CA 95834

FACILITY LOCATION:

RagingWire Enterprise Solutions, Inc.
1200 Striker Ave. & 1312 Striker Ave.
Sacramento, CA 95834

RESPONSIBLE OFFICIAL:

Yatish Mishra
President and CEO
(916) 286-3000

CONTACT PERSON:

James Kennedy
Director of Data Center Operations
(916) 286-3000

NATURE OF BUSINESS:

Computer/Data Server Processing

**STANDARD INDUSTRIAL
CLASSIFICATION (SIC):**

7376

Larry Greene
SMAQMD Air Pollution Control Officer

by: _____
Venk Reddy
Air Quality Engineer

TABLE OF CONTENTS

	Page
I. PERMIT SUMMARY	4
II. FACILITY DESCRIPTION	7
III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL	
Title V Permit.....	9
Permit Compliance.....	10
Reports and Recordkeeping	11
Ringelmann Chart	14
Particulate Matter	14
Sulfur Compounds	15
Architectural Coating and Solvent Cleaning.....	15
Compliance	16
Equipment Breakdowns	16
Payment of Fees	17
Clean Air Act Fees	17
Emission Statements	17
Accidental Releases	18
Title VI Requirements (Ozone Depleting Substances).....	18
Emission Limitations	19
Equipment Operation	19
IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL	
Applicability	20
SMAQMD Rule 201 Permit Renewal	20
General	20
Equipment Operation	21
Equipment Breakdowns	21
Architectural Coatings.....	23
V. FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC	
▶ Equipment List	24
▶ IC Engine - Emergency Use (P/O 15495)	30
▶ IC Engine - Emergency Use (P/O 15963)	31
▶ IC Engine - Emergency Use (P/O 19104)	32
▶ IC Engine - Emergency Use (P/O 19408)	33
▶ IC Engine - Emergency Use (P/O 19409, 19410, 19585, 19586)	35
▶ IC Engine - Emergency Use (P/O 20279, 20280, 20282 – 20288, 21579)	37

VI. FUTURE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC

▶ Equipment list..... 38
▶ IC Engine - Emergency Use 46
(A/C 21352, 21366 – 21372, 22348 – 22363)

VII. INSIGNIFICANT EMISSION UNITS 47

VIII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE..... 51

DRAFT 6-29-11

I. PERMIT SUMMARY

This permit shall serve as a conditional Permit to Operate pursuant to SMAQMD Rule 201 (General Permit Requirements) and SMAQMD Rule 207 (Title V - Federal Operating Permit Program). Requirements identified in the permit as non-federally enforceable are not enforceable by U.S. EPA. However, they are enforceable by the Sacramento Metropolitan Air Quality Management District (SMAQMD)

Your application for this air quality Permit to Operate was evaluated for compliance with SMAQMD, State and Federal air quality rules and regulations. The following listed rules are those that were found to be applicable at the time of permit review, based on the information submitted with the Title V permit application.

Citation	Description	Rule Adoption Date	Federally Enforceable
SMAQMD Rule 101	General Provisions and Definitions	09-03-1998	Yes
SMAQMD Rule 102	Circumvention	11-29-1983	Yes
SMAQMD Rule 108	Minor Violation (not SIP approved)	10-01-1998	No
SMAQMD Rule 201	General Permit Requirements (SIP approved)	11-20-1984	Yes
SMAQMD Rule 201	General Permit Requirements (not SIP approved)	08-24-2006	No
SMAQMD Rule 202	New Source Review (SIP approved)	11-20-1984	Yes
SMAQMD Rule 202	New Source Review (not SIP approved)	02-24-2005	No
SMAQMD Rule 207	Title V - Federal Operating Permit Program (not SIP approved but rule is applicable as part of U.S. EPA approval of the SMAQMD Title V program)	04-26-2001	Yes
SMAQMD Rule 301	Permit Fees - Stationary Source (not SIP approved but Title V fees in rule applicable as part of U.S. EPA approval of the SMAQMD Title V program)	08-01-2008	Yes (Title V provisions only)
SMAQMD Rule 307	Clean Air Act Fees	09-26-2002	Yes
SMAQMD Rule 401	Ringelmann Chart	04-05-1983	Yes

I. PERMIT SUMMARY

Citation	Description	Rule Adoption Date	Federally Enforceable
SMAQMD Rule 402	Nuisance	08-03-1977	No
SMAQMD Rule 403	Fugitive Dust	11-29-1983	Yes
SMAQMD Rule 404	Particulate Matter	11-20-1984	Yes
SMAQMD Rule 405	Dust and Condensed Fumes	11-29-1983	Yes
SMAQMD Rule 406	Specific Contaminants	11-29-1983	Yes
SMAQMD Rule 407	Open Burning	11-29-1983	Yes
SMAQMD Rule 411	NOx from Boilers, Process Heaters and Steam Generators	08-23-2007	Yes
SMAQMD Rule 412	Stationary Internal Combustion Engines Located at Major Stationary Sources of NOx	06-01-1995	Yes
SMAQMD Rule 414	Natural Gas Fired Water Heaters (SIP approved)	08-01-1996	Yes
SMAQMD Rule 414	Natural Gas Fired Water Heaters (not SIP approved)	03-25-2010	No
SMAQMD Rule 420	Sulfur Content of Fuels	11-29-1983	Yes
SMAQMD Rule 442	Architectural Coatings (SIP approved)	09-05-1996	Yes
SMAQMD Rule 442	Architectural Coatings (not SIP approved)	05-24-2001	No
SMAQMD Rule 451	Surface Coating of Miscellaneous Metal Parts and Products (SIP approved)	11-29-1983	Yes
SMAQMD Rule 451	Surface Coating of Miscellaneous Metal Parts and Products (not SIP approved)	10-28-2010	No
SMAQMD Rule 466	Solvent Cleaning (submitted for SIP approval)	10-28-2010	Yes
SMAQMD Rule 601	Procedure before the Hearing Board (not SIP approved)	02-05-1998	No

I. PERMIT SUMMARY

Citation	Description	Rule Adoption Date	Federally Enforceable
SMAQMD Rule 602	Breakdown Conditions: Emergency Variance (not SIP approved)	12-06-1978	No
SMAQMD Rule 801	New Source Performance Standards (not SIP approved)	03-27-2008	No
U.S. EPA New Source Performance Standards (NSPS)	NSPS for Stationary Compression Ignition IC Engines 40 CFR 60 Subpart IIII (begin at 60.4200)	07-11-2006 (A)	Yes
U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP)	NESHAP for Reciprocating IC Engines 40 CFR 63 Subpart ZZZZ (begin at 63.6580)	08-20-2010 (A)	Yes
U.S. EPA 40 CFR 68 (begin at 68.1)	Chemical Accident Prevention Provisions 40 CFR 68 (begin at 68.1)	04-09-2004 (A)	Yes
U.S. EPA 40 CFR 82 Subpart F (begin at 82.150)	Protection of Stratospheric Ozone - Recycling and Emissions Reduction 40 CFR 82 Subpart F (begin at 82.150)	04-13-2005 (A)	Yes

(A) Most recent U.S. EPA promulgation date.

Future changes in prohibitory rules may establish more stringent requirements that may, at the SMAQMD level, supersede the conditions listed here. For Title V purposes however, the federally enforceable requirements are those found in the Title V permit. Federally enforceable provisions of the Title V permit do not change until the Title V permit is revised.

II. FACILITY DESCRIPTION

Permit Background

<u>Permit Action</u>	<u>Date Issued</u>	<u>Federal Title V Operating Permit No.</u>
Initial permit issued:	TBD	TV2010-20-01

Current Permitting Action

This permit action is the initial issuance of Title V Federal Operating Permit, TV2010-20-01.

Facility Description

The applicant operates two adjacent facilities that contain data process servers. Data process servers are electronic devices that provide digital storage and computing capabilities. The applicant provides a facility with specific environmental and electrical parameters to house these data process servers. To provide a high reliability of constant environmental and electrical parameters, IC engine driven electric generators are used in the event of loss of usable power from the serving utility. An organization that procures RagingWire Enterprise Solutions, Inc.'s services can for a fee place their data process servers at the facility.

In order to provide for the uninterrupted operation of the data servers, as well as HVAC equipment, the facility has installed or is in the process of installing 40 standby IC engines. An IC engine that is designated standby or emergency is defined as an IC engine that is limited in the numbers of hours it can run to maintain integrity of the system or maintenance, and operate in the event of a power failure, or emergency. These IC engines drive generators that provide power in the event that the serving utility cannot provide adequate quality of power to maintain the integrity of the data process servers or environmental control equipment. Data process servers, as with any electronic equipment optimally run at a constant temperature and humidity, but produce heat. To remove this heat, the applicant has HVAC equipment to accomplish this task, such as cooling towers, air handlers, chillers, and heaters.

There are two buildings adjacent to each other where the applicant operates the business. One building is at 1200 Striker Ave, Sacramento, CA and the other is 1312 Striker Ave, Sacramento, CA. Since both buildings are located on contiguous properties, the emissions from the buildings will be aggregated and considered one facility. Sixteen IC engines are currently installed at 1200 Striker Ave., Sacramento, CA. Twenty four IC engines will be installed at 1312 Striker Ave., Sacramento, CA.

The facility will contain 40 diesel fired IC engines. There are two air pollution control devices to control NOx emissions connected to two of the IC engines. A Selective Catalytic Reduction device, or SCR, is an air emission control device that reduces the amount of NOx emissions from the exhaust of the IC engine by converting it to nitrogen and water in the presence of ammonia. The SCRs were installed to meet SMAQMD Rule 202 Section 206, Best Available Control Technology or BACT requirements, not to meet emission standards set forth by the U.S. EPA tier emission

II. FACILITY DESCRIPTION

standards in effect for the model year and horse power rating of the IC engine. Thirty - seven IC engines meet SMAQMD BACT requirements imposed at the time of application without the addition of emissions control equipment. The IC engine permitted under Permit No. 19408 is restricted in hours of operation in order to not trigger BACT requirements. The IC engines are permitted to operate for a limited amount of hours to preserve the integrity of the specific IC engine or the electrical infrastructure, defined as maintenance, as well as a disruption in power quality, defined as emergency. The IC engines are typically permitted by SMAQMD to operate 50 hours per year for maintenance. The IC engines are limited by local district permit to operate less than 200 hours per year for both emergency and maintenance per IC engine. The overall facility is permitted by SMAQMD to not exceed 45.5 tons per year of NOx. This restriction prevents all the IC engines from operating 200 hour per year each. All the IC engines operate on diesel fuel certified by CARB. Currently diesel fuel certified by CARB has a sulfur content of 0.0015%.

The applicant currently has 16 IC engines permitted, built and operational at 1200 Striker Ave. The applicant has applied for the installation of the IC engines at 1312 Striker in two application packets. The first eight engines have an Authority to Construct that will expire on 9-10-2012. The next 16 IC engines are permitted under another Authority to Construct that is set to expire on 5-21-2012. Under SMAQMD Rule 201, 1984 SIP approved version, Section 301, SMAQMD may grant up to a two year extension on these Authorities to Construct permits. Currently the applicant has not begun operation at 1312 Striker Ave and continues the construction and installation of the IC engines.

To be considered an emergency IC engine, SMAQMD Rule 202 Section 110 limits total usage of the IC engine to less than 200 hours per year. The State of California *Air Toxic Control Measure for Stationary Diesel Fueled Engines* (ATCM) limits maintenance and testing of each IC engine to less than 50 hours per year. All the IC engines at the facility are at a minimum compliant with this requirement. There are other limiting factors that limit the operation of the IC engines further below this amount. The applicant has built up the facility through a series of distinct projects. At times the applicant has taken various emission caps.

Maintenance and Support Activities:

These activities are performed for the purpose of maintenance, repair, and upkeep of the facility equipment and grounds. Examples of these types of activities include welding, degreasing, use of lubricants, forklift activity, architectural coating, grounds maintenance, vehicle traffic, work performed by contractors, etc.

Storage Tanks:

This facility stores diesel fuel and other petroleum based products as well as urea.

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

TITLE V PERMIT INITIAL APPLICATION

1. The owner or operator shall submit to the SMAQMD Air Pollution Control Officer a complete Title V permit application for renewal no later than XXXX,XX, 20XX (12 months prior to the expiration date of the Title V permit).
[Basis: SMAQMD Rule 207 Section 301.4]
2. The owner or operator of a stationary source shall submit to the SMAQMD Air Pollution Control Officer a complete Title V permit application for minor Title V permit modification. The application shall be submitted after receiving any required preconstruction permit from the SMAQMD and before commencing operation associated with the Minor Title V permit modification.
[Basis: SMAQMD Rule 207 Section 301.6]
3. The owner or operator of a stationary source shall submit to the SMAQMD Air Pollution Control Officer a complete Title V permit application for a Significant Title V permit modification. The application shall not be submitted prior to receiving any required preconstruction permit from the SMAQMD, but no later than 12 months after commencing an operation associated with the Significant Title V permit modification. Where an existing federally enforceable Title V permit condition would prohibit such change in operation or the stationary source is not required to obtain a preconstruction permit, the owner or operator must obtain a Title V permit modification before commencing operation.
[Basis: SMAQMD Rule 207 Section 301.7]
4. The applicant shall submit to the SMAQMD Air Pollution Control Officer timely updates to the Title V application as new requirements become applicable to the source.
[Basis: SMAQMD Rule 207 Section 302.1]
5. The applicant shall submit to the SMAQMD Air Pollution Control Officer any additional information necessary to correct any incorrect information in the Title V permit application upon becoming aware of such incorrect submittal or if the applicant is notified by the SMAQMD Air Pollution Control Officer of such incorrect submittal.
[Basis: SMAQMD Rule 207 Section 302.2]
6. The applicant shall submit to the SMAQMD Air Pollution Control Officer any additional information relating to the Title V application within 30 days if such information is requested in writing by the SMAQMD Air Pollution Control Officer.
[Basis: SMAQMD Rule 207 Section 302.3]
7. Title V permit expiration terminates the stationary source's right to operate unless a timely and complete Title V permit application for renewal has been submitted and the stationary source complies with SMAQMD Rule 207 Sections 303.1(a), (b), (c), and (d), in which case the existing Title V permit will remain in effect until the Title V permit renewal has been issued or denied.
[Basis: SMAQMD Rule 207 Section 303.2]

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

8. Any Title V application form, report, or compliance certification submitted pursuant to a federally enforceable requirement in this permit shall contain certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

[Basis: SMAQMD Rule 207 Section 304]

9. This Title V permit shall have a 5-year fixed term from the date of issuance. The Title V permit shall have a new 5-year fixed term from the date of final action on reopening if the responsible official chooses to submit to the SMAQMD a complete Title V application for renewal upon reopening of the Title V permit pursuant to SMAQMD Rule 207 Sections 411 or 412, and the Title V permit is renewed according to the administrative procedures listed in SMAQMD Rule 207 Sections 401 through 408.

[Basis: SMAQMD Rule 207 Section 306]

PERMIT COMPLIANCE

10. The permittee must comply with all conditions of the Title V permit.

[Basis: SMAQMD Rule 207 Section 305.1(k)(1)]

11. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the Title V permit.

[Basis: SMAQMD Rule 207 Section 305.1(k)(2)]

12. This Title V permit may be modified, revoked, reopened and reissued, or terminated for cause.

[Basis: SMAQMD Rule 207 Section 305.1(k)(3)]

13. The permittee shall furnish to the SMAQMD Air Pollution Control Officer, within a reasonable time, any information that the SMAQMD Air Pollution Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit pursuant to SMAQMD Rule 207 Section 411, or to determine compliance with this Title V permit. Upon request, the permittee shall also furnish to the SMAQMD Air Pollution Control Officer copies of records required to be kept by conditions of this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the U.S. EPA along with a claim of confidentiality.

[Basis: SMAQMD Rule 207 Section 305.1(k)(4)]

14. Noncompliance with any federally enforceable requirement in this Title V permit is grounds for Title V permit termination, revocation and reissuance, modification, enforcement action or denial of the Title V permit renewal application. Any violation of the Title V permit shall also be a violation of SMAQMD Rule 207.

[Basis: SMAQMD Rule 207 Section 305.1(k)(5)]

15. A pending Title V permit action (e.g. a proposed permit revision) or notification of anticipated noncompliance does not stay any permit condition.

[Basis: SMAQMD Rule 207 Section 305.1(k)(6)]

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

16. This Title V permit does not convey any property rights of any sort or any exclusive privilege.
[Basis: SMAQMD Rule 207 Section 305.1(k)(7)]
17. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the SMAQMD Air Pollution Control Officer or an authorized representative to perform all of the following:
- A. Enter upon the stationary source's premises where this source is located, where emissions related activity is conducted or where records must be kept under the conditions of this permit;
 - B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - C. Inspect at reasonable times, the stationary source, equipment (including monitoring and air pollution control equipment), practices and operations regulated or required under this permit, and;
 - D. As authorized by the Federal Clean Air Act, sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the permit conditions or applicable federal requirements.
- [Basis: SMAQMD Rule 207 Section 413.1]**

REPORTS AND RECORDKEEPING

18. Monitoring Reports

- A. The permittee shall submit to the SMAQMD Air Pollution Control Officer at least once every six months, unless required more frequently by an applicable requirement, reports of all required monitoring.
 - B. The reporting periods for this permit shall be for the six month periods January 1 through June 30 and July 1 through December 31. The reports shall be submitted by July 30 and January 30 of each year respectively.
 - C. All instances of deviations from Title V permit conditions must be clearly identified in such reports. All required reports must be certified by the responsible official and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- [Basis: SMAQMD Rule 207, Section 501.1]**

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

19. The following records shall be continuously maintained onsite for the most recent five year period for each respective unit and shall be made available to the SMAQMD Air Pollution Control Officer upon request. Monthly, quarterly and year records shall be made available within 30 days of the end of the reporting period.

[Basis: SMAQMD Rule 201, Section 302]

Frequency	Information To Be Recorded for Each Respective Engine
When Operated	A. Date and Time B. Purpose – Either maintenance (M) or Emergency (E) C. Numbers of hours of operation D. For the IC engine permitted under 19408, number of minutes of operation E. For IC engine permitted under 19408, if operated for both emergency and maintenance, on the same day, calculation of daily NOx emission, by using calculation found in condition B-4 Item 2 footnote C
Monthly	F. Total numbers of hours of operation for each operating mode (hours/month) G. Total NOx emissions based on the rolling average for the year for the facility, 1200 Striker & 1312 Striker Ave.
Quarterly	H. Total numbers of hours of operation for each operating mode (hours/month) I. Total emissions per emission cap.
Yearly	J. Total number of hours of operation for each operating mode (hours/year)
All fuel deliveries	K. Retain fuel purchase records that account for all fuel purchases for use in the IC engines. Fuel purchase records shall include <ol style="list-style-type: none"> i. Identification of type of fuel (ie. Carb Diesel, alternative diesel, ect.) ii. Quantity of fuel purchased iii. Signature of person receiving fuel iv. Signature of fuel provider indicating that fuel was delivered

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

All times	L. The following records shall be maintained at all times <ul style="list-style-type: none">i. Permit number of each stationary IC engineii. Manufacturer, model number and rating in horse power of each stationary IC engineiii. If testing, maintain copies of most recent emission tests including data and results reported as ppmv @15% O2 of NOx and pounds per unit time of NOx
-----------	---

20. Compliance Reports

- A. The permittee shall submit to the SMAQMD Air Pollution Control Officer and U.S. EPA (Air-3, U.S. EPA, Region IX) on an annual basis, unless required more frequently by additional applicable federal requirements such as Section 114(a)(3) and 504(b) (42 U.S.C. Sections 7414(a)(3) and 7661c(b)) of the Federal Clean Air Act, a certification of compliance by the responsible official with all terms and conditions contained in the Title V permit, including emission limitations, standards and work practices.
- B. The reporting period for this permit shall be January 1 through December 31. The report shall be submitted by January 30 of each year.
- C. All required reports must be certified by the responsible official and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- D. The compliance certification shall include the following:
 - i. The identification of each term or condition of the Title V permit that is the basis of the certification.
 - ii. The method(s) used for determining the compliance status of the source, currently and over the reporting period, and whether such method(s) provides continuous or intermittent data.
 - iii. The status of compliance with the terms and conditions of the Title V permit for the period covered by the certification, based on the method designated in Section D(ii) of this condition.
 - iv. Such other facts as the SMAQMD Air Pollution Control Officer may require to determine the compliance status of the source.
 - v. In accordance with SMAQMD Rule 207 Section 305, a method for monitoring the compliance of the stationary source with its emissions limitations, standards and work practices.

[Basis: SMAQMD Rule 207 Section 413.4]

21. The permittee must notify the SMAQMD Air Pollution Control Officer of any occurrence which

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

constitutes any emergency, as defined in SMAQMD Rule 207 Section 212, as soon as reasonably possible, but no later than one hour after its detection. If the emergency occurs when the SMAQMD Air Pollution Control Officer cannot be contacted, the report of the emergency shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved and, to the extent known, the cause(s) of the occurrence.

[Basis: SMAQMD Rule 207 Section 212 & 501.2]

22. The permittee shall report within 24 hours of detection any deviation from a federally enforceable Title V permit condition not attributable to an emergency. In order to fulfill the reporting requirement of this condition, the permittee shall notify the SMAQMD Air Pollution Control Officer by telephone followed by a written statement describing the nature of the deviation from the federally enforceable permit condition.

[Basis: SMAQMD Rule 207 Section 501.3]

23. All monitoring data and support information required by a federally enforceable applicable requirement must be kept by the stationary source for a period of 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the federally enforceable applicable requirement in the Title V permit.

[Basis: SMAQMD Rule 207 Section 502.3]

RINGELMANN CHART

24. Except as otherwise provided in SMAQMD Rule 401 Section 100, the permittee shall not discharge into the atmosphere, from any single source of emission whatsoever, any air contaminant, other than uncombined water vapor, 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 a human observer's view, or a certified calibrated in-stack opacity monitoring system to a degree equal to or greater than No. 1 on the Ringelmann Chart.

[Basis: SMAQMD Rule 401 Section 301]

PARTICULATE MATTER

25. The permittee shall take every reasonable precaution not to cause or allow the emissions of fugitive dust from being airborne beyond the property line from which the emission originates, from any construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation. Reasonable precautions shall include, but are not limited to:

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

- A. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the construction of roadways or the clearing of land.
- B. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles and other surfaces which can give rise to airborne dusts.
- C. Other means approved by the SMAQMD Air Pollution Control Officer.

[Basis: SMAQMD Rule 403 Section 301]

26. Except as otherwise provided in SMAQMD Rule 406, the permittee shall not discharge into the atmosphere, from any source, particulate matter in excess of 0.23 grams per dry standard cubic meter (0.1 grains per dry standard cubic foot).

[Basis: SMAQMD Rule 404 Section 301]

27. The permittee shall not discharge into the atmosphere in any one hour from any source whatsoever dust or condensed fumes in total quantities in excess of the amount shown in the "Table for Process Weight and Allowable Discharge" of SMAQMD Rule 405.

[Basis: SMAQMD Rule 405 Section 301]

28. The permittee shall not discharge into the atmosphere particulate matter from the burning of any kind of material containing carbon in a free or combined state, from any single source of emission whatsoever, combustion contaminants in any state or combination thereof exceeding in concentration at the point of discharge: 0.23 grams per dry standard cubic meter (0.1 grains per dry standard cubic foot) of gas calculated to 12% carbon dioxide (CO₂) at standard conditions.

[Basis: SMAQMD Rule 406 Section 302]

SULFUR COMPOUNDS

29. The permittee shall not discharge into the atmosphere, from any single source of emission whatsoever, sulfur compounds, in any state or combination thereof, exceeding in concentration at the point of discharge: sulfur compounds, calculated as sulfur dioxide (SO₂): 0.2% by volume.

[Basis: SMAQMD Rule 406 Section 301]

30. Except as otherwise provided in SMAQMD Rule 420 Section 110, the permittee shall not burn any gaseous fuel containing sulfur compounds in excess of 1.14 grams per cubic meter (50 grains per 100 cubic feet) of gaseous fuel, calculated as hydrogen sulfide at standard conditions, or any liquid fuel or solid fuel having a sulfur content in excess of 0.5% by weight.

[Basis: SMAQMD Rule 420 Section 301]

ARCHITECTURAL COATING AND SOLVENT CLEANING

31. Any coating applied to stationary structures and their appurtenances, to mobile homes, to

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

pavements, or to curbs, shall meet the requirements of SMAQMD Rule 442.

[Basis: SMAQMD Rule 442 (09-05-1996 version)]

32. All VOC-containing materials used for architectural coating, including clean-up, shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired.

[Basis: SMAQMD Rule 442 Section 304 (09-05-1996 version)]

DRAFT 6-29-11

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

33. The permittee shall comply with the requirements of SMAQMD Rule 466 Solvent Cleaning when using volatile organic compounds for the cleanup of architectural coating application equipment or for other applications of solvent cleaning at the facility.

[Basis: SMAQMD Rule 466 (10-28-2010 version, submitted to EPA pending approval)]

34. The permittee shall keep a record of all architectural coatings purchased that are not clearly labeled as complying with the VOC content limits contained in SMAQMD Rule 442. Compliance in these cases can be determined by maintaining records of the manufacturer's certifications or by Material Safety Data Sheets (MSDS) that demonstrate compliance with the VOC limits of SMAQMD Rule 442.

[Basis: SMAQMD Rule 442 (09-05-1996 version)]

COMPLIANCE

35. Compliance with the conditions of the Title V permit shall be deemed compliance with all applicable requirements identified in the Title V permit.

[Basis: SMAQMD Rule 207 Section 307]

EQUIPMENT BREAKDOWNS

36. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology based emission limitations if the following conditions are met:

A. The affirmative defense of an emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

i. An emergency occurred and that the permittee can identify the cause(s) of the emergency.

ii. The permitted facility was at the time being properly operated.

iii. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the Title V permit.

iv. The permittee submitted notice of the emergency to the SMAQMD Air Pollution Control Officer within two working days of the time when emissions limitations were exceeded due to the emergency. The notice must contain a description of the emergency and corrective actions taken.

B. In any enforcement proceedings, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[Basis: SMAQMD Rule 207 Section 414]

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

37. The permittee shall notify the SMAQMD Air Pollution Control Officer of any occurrence which constitutes an emergency as defined in SMAQMD Rule 207 Section 212 as soon as reasonably possible, but no later than one hour after its detection. If the emergency occurs when the SMAQMD Air Pollution Control Officer cannot be contacted, their report of the emergency shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved and to the extent known, the cause(s) of the occurrence.

[Basis: SMAQMD Rule 207 Section 501.2]

PAYMENT OF FEES

38. The fee for (1) the issuance of an initial Title V operating permit, (2) the renewal and/or inspection of a Title V operating permit, (3) the modification of a Title V operating permit or (4) an administrative Title V permit amendment shall be based on the actual hours spent by the SMAQMD staff in evaluating the application and processing the operating permit. The fee shall be assessed in accordance with the hourly rate established in SMAQMD Rule 301 Section 308.12.

[Basis: SMAQMD Rule 207 Section 305.7 and SMAQMD Rule 301 Section 313]

39. After the provisions for granting permits as set forth in SMAQMD Rule 207 have been complied with, the permittee will be notified by mail of the fee due and payable and the date the fee is due. If the fee is not paid by the specified due date, the fee shall be increased by one half the amount and the applicant/permittee shall be notified by mail of the increased fee. If the increased fee is not paid within 30 days after notice the application/permit will be canceled/revoked and the applicant/permittee will be notified by mail.

[Basis: SMAQMD Rule 207 Section 305.7]

CLEAN AIR ACT FEES

40. After the U.S. EPA determines that the SMAQMD has failed to demonstrate attainment of the one hour ozone ambient air quality standard by the attainment year, the permittee, operating any major stationary source of ROC or NO_x, shall pay the Clean Air Act fees specified by the SMAQMD Air Pollution Control Officer in accordance with SMAQMD Rule 307.

[Basis: SMAQMD Rule 307]

EMISSION STATEMENTS

41. The permittee, when operating any stationary source that emits 25 tons or more per year of ROC or NO_x of actual emissions, shall annually provide the SMAQMD Air Pollution Control Officer with a written emission statement showing actual emissions of ROC and NO_x from that source.

[Basis: SMAQMD Rule 105]

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

ACCIDENTAL RELEASES

42. If subject to Section 112(r) of the Federal Clean Air Act and 40 CFR 68, the permittee shall register and submit to the U.S. EPA the required data related to the risk management plan (RMP) for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the Federal Clean Air Act as amended in 40 CFR 68.130. The list of substances, threshold quantities and accident prevention regulations promulgated under 40 CFR 68 do not limit in any way the general duty provisions under Section 112(r)(1) of the Federal Clean Air Act.

[Basis: 40 CFR Part 68]

43. If subject to Section 112(r) of the Federal Clean Air Act and 40 CFR 68, the permittee shall comply with the requirements of 40 CFR Part 68 no later than the latest of the following dates as provided in 40 CFR 68.10(a):

A. June 21, 1999,

B. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or

C. The date on which a regulated substance is first present above a threshold quantity in a process.

[Basis: 40 CFR 68]

44. If subject to Section 112(r) of the Federal Clean Air Act and 40 CFR 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR 68.

[Basis: 40 CFR 68]

45. If subject to Section 112(r) of the Federal Clean Air Act and 40 CFR 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) of the Federal Clean Air Act as part of the annual compliance certification as required by SMAQMD Rule 207 Section 413.4.

[Basis: 40 CFR 68]

TITLE VI REQUIREMENTS (OZONE DEPLETING SUBSTANCES)

46. The permittee, when opening appliances containing CFCs for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

[Basis: 40 CFR 82 Subpart F]

47. Equipment used during the maintenance, service, repair, or disposal of appliances containing CFCs must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

[Basis: 40 CFR 82 Subpart F]

III. FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

48. The permittee, when performing maintenance, service, repair or disposal of appliances containing CFCs must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

[Basis: 40 CFR 82 Subpart F]

EMISSION LIMITATIONS

49. The permittee shall not exceed the following limitations of emissions.

	NOx Emission Limit
Permitted IC engines located at 1200 Striker Ave & 1312 Striker Ave, quantity 40 IC engines.	45.5 tons (91,000 lbs) of NOx per rolling 12 month period.
Permitted IC engines located at 1312 Striker Ave, quantity 24 IC engines.	24.4 tons (48,800 lbs) of NOx per rolling 12 month period.
Permitted IC engines located at 1200 Striker Ave, quantity 16 IC engines.	24.4 tons (48,800 lbs) of NOx per rolling 12 month period.
IC engines permitted under SMAQMD permits 19408, 19409, 19410.	5,000 lbs of NOx emissions per quarter.
IC engines permitted under SMAQMD permits 20279, 20280, 20282, 20283, 20284, 20285, 20286, 20287, 20288.	5,000 lbs of NOx emissions per quarter.

[Basis: SMAQMD Rule 201, Section 302]

EQUIPMENT OPERATION

50. Each IC engine shall be fueled with CARB diesel fuel.

[Basis: SMAQMD Rule 201, Section 302]

51. Each IC engine shall be equipped with a non-resetting hour meter with a minimum display capability of 9,999.

[Basis: SMAQMD Rule 201, Section 302]

52. Upon request of the SMAQMD Air Pollution Control Officer or designee, once each year, during daylight hours, each IC engine shall be run at maximum anticipated load, from cold start conditions, for observation of compliance with opacity limitations.

[Basis: SMAQMD Rule 201, Section 302]

53. Unless authorized by SMAQMD, for purposes other than emergency operation, only one IC engine may operate at any single time at 1312 Striker Ave and 1200 Striker Ave. The following exclusions apply to this condition

a) Facility wide operational test where all or some of the engines operate at the same time occurring no more often than once every calendar year and for less than 30 minutes

b) Electrical infrastructure upgrades or repairs requiring multiple IC engines to operate.

[Basis: SMAQMD Rule 201, Section 302]

IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

APPLICABILITY:

1. The requirements outlined in this section pertain to the SMAQMD Rule 201 Permits to Operate and are not part of the Title V permit.

SMAQMD RULE 201 PERMIT RENEWAL

2. Permits to Operate issued to RagingWire Enterprise Solutions, Inc., pursuant to SMAQMD Rule 201 (non-Title V Permits to Operate), shall be renewed annually on January 23 and upon payment of the permit renewal fee established pursuant to SMAQMD Rule 301.
3. The SMAQMD Air Pollution Control Officer shall review every SMAQMD Rule 201 Permit to Operate upon annual renewal, pursuant to California Health and Safety Code Section 42301(c), to determine that permit conditions are adequate to ensure compliance with, and the enforceability of, SMAQMD rules and regulations applicable to the article, machine, equipment or contrivance for which the permit was issued. Applicable SMAQMD rules and regulations shall include those which were in effect at the time the permit was issued or modified, or which have subsequently been adopted and made retroactively applicable to an existing article, machine, equipment or contrivance, by the SMAQMD Board of Directors. The SMAQMD Air Pollution Control Officer shall revise the conditions, if such conditions are not consistent, in accordance with all applicable rules and regulations.

GENERAL

4. The SMAQMD Air Pollution Control Officer and/or authorized representatives, upon the presentation of credentials shall be permitted:
 - A. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate, and
 - B. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Permit to Operate, and
 - C. To inspect any equipment, operation, or method required in this Permit to Operate, and
 - D. To sample emissions from the source or require samples to be taken.
5. Legible copies of all SMAQMD Rule 201 Permits to Operate shall be maintained on the premises with the equipment.
6. The equipment shall not discharge such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

EQUIPMENT OPERATION

7. The equipment shall be properly maintained.
8. This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3 of the Health and Safety Code of the State of California or the Rules and Regulations of the SMAQMD.
9. The exhaust stack of any IC engine shall exit vertically and shall not be obstructed during the IC engine operation. A flapper-type rain cap will comply with this condition provided it does not impede the vertical flow of exhaust.

EQUIPMENT BREAKDOWNS:

10. The permittee shall notify the SMAQMD Air Pollution Control Officer of any occurrence which constitutes a breakdown, as defined in SMAQMD Rule 602 Section 201, as soon as reasonably possible, but no later than one hour after its detection. If the breakdown occurs when the SMAQMD Air Pollution Control Officer cannot be contacted, the report of breakdown shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved and, to the extent known, the cause(s) of the occurrence.
11. Upon notification of the breakdown condition, the SMAQMD Air Pollution Control Officer shall investigate the breakdown condition in accordance with uniform written procedures and guidelines relating to logging of initial reports on appropriate forms, investigation, and enforcement follow-up. If the occurrence does not constitute a breakdown condition, the SMAQMD Air Pollution Control Officer may take appropriate enforcement action.
12. An occurrence which constitutes a breakdown condition, and which persists only until the end of the production run or 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours) shall constitute a violation of any applicable emission limitation or restriction prescribed by the SMAQMD Rules and Regulations; however, the SMAQMD Air Pollution Control Officer may elect to take no enforcement action if the owner or operator demonstrates to his satisfaction that a breakdown condition exists and the following requirements are met:
 - A. The notification required in SMAQMD Rule 602 Section 301.1 is made; and
 - B. Immediate appropriate corrective measures are undertaken and compliance is achieved, or the process is shutdown for corrective measures before commencement of the next production run or within 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment for which the period shall be 96 hours). If the owner or operator elects to shut down, rather than come into immediate compliance, (s)he must nonetheless take whatever steps are possible to minimize the impact of the breakdown within the 24 hour period; and

IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

- C. The breakdown does not interfere with the attainment and maintenance of any national ambient air quality standard.
13. An occurrence which constitutes a breakdown condition shall not persist longer than the end of the production run or 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours), unless an emergency variance has been obtained.
14. If the breakdown condition will either require more than 24 hours to correct or persists longer than the end of the production run (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours) the owner or operator may, in lieu of shutdown, request the SMAQMD Air Pollution Control Officer to commence the emergency variance procedure set forth in SMAQMD Rule 602 Section 304.
15. No emergency variance shall be granted unless the chairperson of the SMAQMD Hearing Board or other designated member(s) of the SMAQMD Hearing Board finds that:
- A. The occurrence constitutes a breakdown condition;
 - B. Continued operation is not likely to create an immediate threat or hazard to public health or safety; and
 - C. The requirements for a variance set forth in California Health & Safety Code Sections 42352 and 42353 have been met;
 - D. The continued operation in a breakdown condition will not interfere with the attainment or maintenance of the national ambient air quality standards.
16. At any time after an emergency variance has been granted, the SMAQMD Air Pollution Control Officer may request for good cause that the chairperson or designated member(s) reconsider and revoke, modify or further condition the variance. The procedures set forth in SMAQMD Rule 602 Section 304.1 shall govern any further proceedings conducted under this request.
17. An emergency variance shall remain in effect only for as long as necessary to repair or remedy the breakdown condition, but in no event after a properly noticed hearing to consider an interim or 90 day variance has been held, or 15 days from the date of the subject occurrence, whichever is sooner.
18. Within one week after a breakdown condition has been corrected, the owner or operator shall submit a written report to the SMAQMD Air Pollution Control Officer on forms supplied by the SMAQMD Air Pollution Control Officer describing the causes of the breakdown, corrective measures taken, estimated emissions during the breakdown and a statement that the condition has been corrected, together with the date of correction and proof of compliance. The SMAQMD Air Pollution Control Officer may, at the request of the owner or operator for good cause, extend up to 30 days the deadline for submittal of the report described in this subsection.

IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - GENERAL

19. The burden of proof shall be on the owner or operator of the source to provide sufficient information to demonstrate that a breakdown did occur. If the owner or operator fails to provide sufficient information, the SMAQMD Air Pollution Control Officer shall undertake appropriate enforcement action.
20. Any failure to comply, or comply in a timely manner, with the reporting requirements established in SMAQMD Rule 602 Sections 301.1 and 401 shall constitute a separate violation of SMAQMD Rule 602.
21. It shall constitute a separate violation of SMAQMD Rule 602 for any person to file with the SMAQMD Air Pollution Control Officer a report which falsely, or without probable cause, claims that an occurrence is a breakdown condition.

ARCHITECTURAL COATING

22. Unless applied by an aerosol can or contained within a volume of one liter or less any person who supplies, sells, offers for sale or manufactures any architectural coating for use within the District, as well as any person who applies or solicits the application of any architectural coating within the District shall meet the requirements of SMAQMD Rule 442.

[Basis: SMAQMD Rule 442 (05-24-2001 version)]

V. EQUIPMENT SPECIFIC REQUIREMENTS – EQUIPMENT LIST

A. EQUIPMENT DESCRIPTION: The information specified under this section is enforceable by the SMAQMD, U.S. EPA and the public.

The requirements specified under the following sections apply to the following equipment:

1. IC ENGINE, EMERGENCY USE

Permit No.: P/O 15495
Manufacturer: Caterpillar
Model No. 3516B
Serial No. 6HN01216
Engine BHP: 2876 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2000
Tier: Tier 1
EPA Family No. YCPXL69.OERK (From CARB Executive order U-R-1-103)
Location: 1200 Striker Ave.

2. IC ENGINE, EMERGENCY USE

Permit No.: P/O 15963
Manufacturer: Caterpillar
Model No. 3516B
Serial No. 6HN01330
Engine BHP: 2876 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2000
Tier: Tier 1
EPA Family No. YCPXL69.OERK (From CARB Executive order U-R-1-103)
Location: 1200 Striker Ave.

3. IC ENGINE, EMERGENCY USE

Permit No.: P/O 19104
Manufacturer: Caterpillar
Model No. 3516B
Serial No. 6HN.1254
Engine BHP: 2876 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2000
Tier: Tier 1
EPA Family No. YCPXL69.OERK (From CARB Executive order U-R-1-103)
Location: 1200 Striker Ave.

V. EQUIPMENT SPECIFIC REQUIREMENTS – EQUIPMENT LIST

4. IC ENGINE, EMERGENCY USE

Permit No.: P/O 19409
Manufacturer: Cummins
Model No. QSK60-G6 Non Road 1
Serial No. 33163718
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2006
Tier: Tier 1
EPA Family No. 5CEXL060.ABA
Location: 1200 Striker Ave.

Exhausted through SCR APC device (P/O19585) to meet BACT standards

5. IC ENGINE, EMERGENCY USE

Permit No.: P/O 19410
Manufacturer: Cummins
Model No. QSK60-G6 Non Road 1
Serial No. 33163633
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2006
Tier: Tier 1
EPA Family No. 5CEXL060.ABA
Location: 1200 Striker Ave.

Exhausted through SCR APC device (P/O19586) to meet BACT standards

6. IC ENGINE, EMERGENCY USE

Permit No.: P/O 19408
Manufacturer: Cummins
Model No. 2000DQKC
Serial No. C040616638
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2004
Tier: Tier 1
EPA Family No. 5CEXL060.ABA
Location: 1200 Striker Ave.

V. EQUIPMENT SPECIFIC REQUIREMENTS – EQUIPMENT LIST

7. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20279
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33167241
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2007
Tier: Tier 2
EPA Family No. 7CEXL060AAD
Location: 1200 Striker Ave.

8. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20280
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33167380
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2007
Tier: Tier 2
EPA Family No. 7CEXL060AAD
Location: 1200 Striker Ave.

9. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20282
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 3375779-93
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2007
Tier: Tier 2
EPA Family No. 7CEXL060AAD
Location: 1200 Striker Ave.

V. EQUIPMENT SPECIFIC REQUIREMENTS – EQUIPMENT LIST

10. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20283
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 75779-93
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2007
Tier: Tier 2
EPA Family No. 7CEXL060AAD
Location: 1200 Striker Ave.

11. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20284
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33176023
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2008
Tier: Tier 2
EPA Family No. 8CEXL060.AAD
Location: 1200 Striker Ave.

12. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20285
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33175727
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2008
Tier: Tier 2
EPA Family No. 8CEXL060.AAD
Location: 1200 Striker Ave.

V. EQUIPMENT SPECIFIC REQUIREMENTS – EQUIPMENT LIST

13. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20286
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33173817
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2008
Tier: Tier 2
EPA Family No. 8CEXL060.AAD
Location: 1200 Striker Ave.

14. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20287
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33175193
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2008
Tier: Tier 2
EPA Family No. 8CEXL060.AAD
Location: 1200 Striker Ave.

15. IC ENGINE, EMERGENCY USE

Permit No.: P/O 20288
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33170830
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2007
Tier: Tier 2
EPA Family No. 7CEXL060AAD
Location: 1200 Striker Ave.

V. EQUIPMENT SPECIFIC REQUIREMENTS – EQUIPMENT LIST

16. IC ENGINE, EMERGENCY USE

Permit No.: P/O 21579
Manufacturer: Cummins
Model No. XQSK60-G6
Serial No. 33175768
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: 2008
Tier: Tier 2
EPA Family No. 8CEXL060.AAD
Location: 1200 Striker Ave.

17. SELECTIVE CATALYTIC REDUCTION AIR POLLUTION CONTROL DEVICE

Permit No.: P/O 19585
Controlling emission from IC engine 19409
Location: 1200 Striker Ave.

18. SELECTIVE CATALYTIC REDUCTION AIR POLLUTION CONTROL DEVICE

Permit No.: P/O 19586
Controlling emission from IC engine 19410
Location: 1200 Striker Ave.

DRAFT 62911

**V. EQUIPMENT SPECIFIC – IC ENGINE, EMERGENCY USE
 REQUIREMENTS (P/O 15495)
 1200 STRIKER AVE.**

B-1. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.

EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engine (P/O 15495) shall not exceed the following limits
[Basis: SMAQMD Rule 202]

Pollutant	Emission Factor (A) grams/hp-hr	Maximum Allowable Emissions (B)	
		lb/quarter	lb/year
ROC	1	1,268	1,268
NOx	6.9	8,750	8,750
SOx	0.16	209	209
PM10	0.4	507	507
CO	8.5	10,779	10,779

(A) Emission factor for NOx, ROC, PM10, and CO from the emission standards for this size IC engine. SOx emission factor based on 0.05% sulfur by weight in the fuel.

(B) Emissions based on 2876 hp, 200 hours/quarter and 200 hours/year of operation.

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engine (P/O 15495) shall operate only for the following purposes and shall not operate more than the following hours.
[Basis: SMAQMD Rule 202]

Type of Operational Hours	Maximum Allowable Operation	
	hours/quarter	hours/year
Maintenance Purposes (A)	30	30
All Operation – Maintenance and Emergency (B)	200	200

(A) Maintenance purposes is defined as: The operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator, the facility's electrical distribution system or when required by SMAQMD to verify compliance with applicable rules and regulations.

(B) Emergency is defined as: When electrical service from the serving utility is interrupted by an unforeseeable event.

**V. EQUIPMENT SPECIFIC – IC ENGINE, EMERGENCY USE
 REQUIREMENTS (P/O 15963)
 1200 STRIKER AVE.**

B-2. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.

EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engine (P/O 15963) shall not exceed the following limits
[Basis: SMAQMD Rule 202]

Pollutant	Emission Factor (A) grams/hp-hr	Maximum Allowable Emissions (B)	
		lb/quarter	lb/year
ROC	1	1,087	1,268
NOx	6.9	7,499	8,750
SOx	0.16	174	203
PM10	0.1	109	129
CO	8.5	9,237	10,779

- (A) Emission factor for NOx, ROC, PM10, and CO from the emission standards for this size IC engine. SOx emission factor based on 0.05% sulfur by weight in the fuel.
 (B) Emissions based on 2876 hp, 171.4 hours/quarter and 200 hours/year of operation.

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engine (P/O 15963) shall operate only for the following purposes and shall not operate more than the following hours.
[Basis: SMAQMD Rule 202]

Type of Operational Hours	Maximum Allowable Operation	
	hours/quarter	hours/year
Maintenance Purposes (A)	50	50
All Operation – Maintenance and Emergency (B)	171.4	200

- (A) Maintenance purposes is defined as: The operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator, the facility's electrical distribution system or when required by SMAQMD to verify compliance with applicable rules and regulations.
 (B) Emergency is defined as: When electrical service from the serving utility is interrupted by an unforeseeable event.

**V. EQUIPMENT SPECIFIC – IC ENGINE, EMERGENCY USE
 REQUIREMENTS (P/O 19104)
 1200 STRIKER AVE.**

B-3. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.

EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engine (P/O 19104) shall not exceed the following limits
[Basis: SMAQMD Rule 202]

Pollutant	Emission Factor (A) grams/hp-hr	Maximum Allowable Emissions (B)	
		lb/quarter	lb/year
ROC	1	634	1,268
NOx	6.9	4,375	8,750
NOx + ROC	6.9	4,375	8,750
SOx	0.16	101	203
PM10	0.149	94	189
CO	8.5	5,389	10,779

(A) Emission factor for NOx, ROC, and CO from the emission standards for this size IC engine. SOx emission factor based on 0.05% sulfur by weight in the fuel. PM10 based on SMAQMD T-BACT standard.

(B) Emissions based on 2,876 hp, 100 hours/quarter and 200 hours/year of operation.

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engine (P/O 19104) shall operate only for the following purposes and shall not operate more than the following hours.

[Basis: SMAQMD Rule 202]

Type of Operational Hours	Maximum Allowable Operation	
	hours/quarter	hours/quarter
Maintenance Purposes (A)	50	50
All Operation – Maintenance and Emergency (B)	100	200

(A) Maintenance purposes is defined as: The operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator, the facility's electrical distribution system or when required by SMAQMD to verify compliance with applicable rules and regulations.

(B) Emergency is defined as: When electrical service from the serving utility is interrupted by an unforeseeable event.

**V. EQUIPMENT SPECIFIC – IC ENGINE, EMERGENCY USE
 REQUIREMENTS (P/O 19408)
 1200 STRIKER AVE.**

B-4. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.

EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engine (P/O 19408) shall not exceed the following limits
[Basis: SMAQMD Rule 202]

Pollutant	Emission factor (A) g/hp-hr	Maximum Allowable Emissions			
		lb/day Maintenance operation (1/4 load) (E)	lb/day Emergency operation (full load) (F)	lb/qtr (C)	lb/year (D)
ROC	1	1.3	1.3	119	474
NOx	6.9	8.9	8.9	818	3,271
		Maintenance plus emergency operation cannot exceed 9.9 lb/day			
SOx	0.1645	0.003	0.003	0.4	0.9
PM10	0.149	0.2	0.2	18	71
CO	8.5	11	11	1,007	4,030

- (A) Emission factors for ROC, NOx, and CO emission factor are based on U.S. EPA tier 1 emission standards. PM10 emission factor is based on T-BACT standards. SOx emission factor is based upon fuel with 0.05% sulfur by weight.
- (B) Not used
- (C) Maximum calculated by assuming in a given quarter the maximum emissions occur when the IC engine is run for emergency purposes. 12 min/day 92 days/quarter 2922 hp
- (D) Maximum calculated by assuming in a given year the maximum emissions occur when the IC engine is run for emergency purposes 2922 hp 12 min/day 92 days/quarter 4 quarters/year.
- (E) Maintenance operation load emissions are based on 731 hp 48 min/day
- (F) Emergency operation load emissions are based on 2922 hp 12 min/day

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engine (P/O 19408) shall operate only for the following purposes and shall not operate more than the following hours:
[Basis: SMAQMD Rule 202]

**V. EQUIPMENT SPECIFIC – IC ENGINE, EMERGENCY USE
 REQUIREMENTS (P/O 19408)
 1200 STRIKER AVE.**

Type Of Operational Hours	Maximum Allowable Operation		
	min./day	hours/quarter	hours/year
Maintenance purposes (A)	48	50	50
Actual interruption of power by the serving utility	12	18.4	73.6
All operation - maintenance, actual interruption of power by the serving utility (B), and source testing	See footnote (C)	50	122

- (A) Maintenance purposes is defined as: the operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator or the facility's electrical distribution system
- (B) Actual interruption of power is defined as: when electrical service from the serving utility is interrupted by an unforeseeable event.
- (C) The IC engine shall not exceed 9.9 lbs per day of emissions. This shall be calculated by the following formula

$$(0.1853*m)+(0.741*e)<9.9$$

m = Minutes of maintenance operation

e = Minutes of emergency operation

- 3. The IC engine shall not be operated for maintenance purposes under loads greater than ¼ of the IC engine output (731 HP output)
[Basis: SMAQMD Rule 202]

DRAFT

V. EQUIPMENT SPECIFIC – (2) IC ENGINES, EMERGENCY USE REQUIREMENTS (P/O 19409, 19410) (2) APC DEVICES - SCR UNIT (P/O 19585, 19586) 1200 STRIKER AVE.

B-5. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.
EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engines respectively (P/O 19409 & 19410) shall not exceed the following limits
[Basis: SMAQMD Rule 202]

Pollutant	Emission Factor (A) grams/hp-hr	Maximum Allowable Emissions (B)	
		lb/quarter	lb/year
ROC	1	1,031	1,288
NOx	4.8	4,947	6,184
NOx + ROC	4.8	4,947	6,184
SOx	0.16	170	212
PM10	0.15	155	193
CO	2.6	2,680	3,349

- (A) Emission factor for NOx, ROC, and CO from the emission standards for this size IC engine. SOx emission factor based on 0.005% sulfur by weight in the fuel. PM10 based on SMAQMD T-BACT standard.
 (B) Emissions based on 2,922 hp, 160 hours/quarter and 200 hours/year of operation.

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engines (P/O 19409 & 19410) respectively shall operate only for the following purposes and shall not operate more than the following hours.
[Basis: SMAQMD Rule 202]

Type of Operational Hours	Maximum Allowable Operation	
	hours/quarter	hours/quarter
Maintenance Purposes (A)	50	50
All Operation – Maintenance and Emergency (B)	160	200

- (A) Maintenance purposes is defined as: The operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator. The facility's electrical distribution system or when required by SMAQMD to verify compliance with applicable rules and regulations.
 (B) Emergency is defined as: When electrical service from the serving utility is interrupted by an unforeseeable event.

**V. EQUIPMENT SPECIFIC – (2) IC ENGINES, EMERGENCY USE
REQUIREMENTS (P/O 19409, 19410)
(2) APC DEVICES - SCR UNIT (P/O 19585, 19586)
1200 STRIKER AVE.**

3. The APC SCR unit (P/O 19585) shall be operational at all times when the IC engine (P/O 19409) is in operation.
[Basis: SMAQMD Rule 202]
4. The APC SCR unit (P/O 19586) shall be operational at all times when the IC engine (P/O 19410) is in operation.
[Basis: SMAQMD Rule 202]
5. A minimum of 10 gallons of urea shall be stored for each SCR unit at all times
[Basis: SMAQMD Rule 202]
6. Each IC engine (P/O 19409 & 19410) shall not be operated at less than 10% load.
[Basis: SMAQMD Rule 202]

TESTING REQUIREMENTS

7. A NO_x and ROC source test shall be conducted every fifth year starting in 2012 to ensure compliance with the emission limit. The source test shall be conducted under the following conditions:
 - A. A source test plan shall be submitted for written approval at least 30 days prior to the source test date.
 - i. Include a detailed description and diagram of sampling equipment.
 - ii. All ports shall be located and constructed as per applicable U.S. EPA or CARB requirements. Please specify that the flow measurements and sampling ports locations will be at least 8 pipe diameters downstream and 2 pipe diameters upstream from any flow disturbance such as a bend or t. Inlet samples and flow rate locations shall be taken downstream of all inlet flows such as dilution air inlets
 - B. SMAQMD shall be notified of the date and time of the source test at least seven days prior to the source test date
 - C. The IC engine shall be operated as close as physically possible to its rated power output during the source test. A resistive load bank shall be used to meet the load requirement. Other loading requirements may apply.
 - D. A written source test report shall be submitted within 60 days of the test date.
[Basis: SMAQMD Rule 202]

**V. EQUIPMENT SPECIFIC – (10) IC ENGINES, EMERGENCY USE
 REQUIREMENTS (P/O 20279, 20280, 20282-20288, 21579)
 1200 STRIKER AVE.**

B-6. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.

EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engines respectively (P/O 20279, 20282, 20282 – 20288, 21579) shall not exceed the following limits

[Basis: SMAQMD Rule 202]

Pollutant	Emission Factor (A) grams/hp-hr	Maximum Allowable Emissions (B)	
		lb/quarter	lb/year
ROC	1.0	1,037	1,288
NOx	4.8	4,978	6,184
NOx + ROC	4.8	4,978	6,184
SOx	0.005	5	7
PM10	0.15	155	192
CO	2.6	2,697	3,350

(A) Emission factor for NOx, ROC, PM10, and CO from the emission standards for this size IC engine. SOx emission factor based on 0.0015% sulfur by weight in the fuel.

(B) Emissions based on 2922 hp, 161 hours/quarter and 200 hours/year of operation.

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engines respectively (P/O 20279, 20280, 20281 – 20288, 21579) shall operate only for the following purposes and shall not operate more than the following hours.

[Basis: SMAQMD Rule 202]

Type of Operational Hours	Maximum Allowable Operation	
	hours/quarter	hours/quarter
Maintenance Purposes (A)	50	50
All Operation – Maintenance and Emergency (B)	161	200

(A) Maintenance purposes is defined as: The operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator, the facility's electrical distribution system or when required by SMAQMD to verify compliance with applicable rules and regulations.

(B) Emergency is defined as: When electrical service from the serving utility is interrupted by an unforeseeable event.

VI. FUTURE EQUIPMENT SPECIFIC REQUIREMENTS (24) IC ENGINES, EMERGENCY USE (A/C 21352, 21366 – 21372, 22348 - 22363) 1312 STRIKER AVE.

A. EQUIPMENT DESCRIPTION: The information specified under this section is enforceable by the SMAQMD, U.S. EPA and the public. As the equipment is built and becomes operational, they will be moved administratively out of the future equipment specific requirements and into the main Title V permit.

The requirements specified under the following sections apply to the following equipment:

1. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21352
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

2. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21366
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

3. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21367
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

4. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21368
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

5. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21369
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

6. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21370
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

7. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21371
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

8. IC ENGINE, EMERGENCY USE

Permit No.: A/C 21372
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

9. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22348
Manufacturer: TBD
Model No. v
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

10. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22349
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

11. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22350
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

12. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22351
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

13. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22352
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

14. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22353
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

15. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22354
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

16. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22355
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

17. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22356
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

18. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22357
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

19. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22358
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

20. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22359
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

21. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22360
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
REQUIREMENTS 1312 STRIKER AVE.

22. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22361
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

23. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22362
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

24. IC ENGINE, EMERGENCY USE

Permit No.: A/C 22363
Manufacturer: TBD
Model No. TBD
Serial No. TBD
Engine BHP: 2922 bhp @ 1,800 RPM
Fuel Type: CARB diesel
Driving: Electrical generator
Model Year: TBD
Tier: Tier 2
EPA Family No. TBD
Location: 1312 Striker Ave.

**VI. FUTURE EQUIPMENT (24) IC ENGINES, EMERGENCY USE
 SPECIFIC (A/C 21352, 21366 – 21372, 22348 - 22363)
 REQUIREMENTS 1312 STRIKER AVE.**

B. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS: The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA, and the public.

EMISSIONS LIMIT REQUIREMENTS

1. The emissions from the IC engines respectively (A/C 21352, 21366 – 21372, 22348 - 22363) shall not exceed the following limits
[Basis: SMAQMD Rule 202]

Pollutant	Emission Factor (A) grams/hp-hr	Maximum Allowable Emissions (B)	
		lb/quarter	lb/year
ROC	1.0	1,288	1,288
NOx	4.8	6,184	6,184
NOx + ROC	4.8	6,184	6,184
SOx	0.005	7	7
PM10	0.15	192	192
CO	2.6	3,350	3,350

- (A) Emission factor for NOx, ROC, PM10, and CO from the emission standards for this size IC engine. SOx emission factor based on 0.0015% sulfur by weight in the fuel.
 (B) Emissions based on 2922 hp, 200 hours/quarter and 200 hours/year of operation.

EQUIPMENT OPERATION REQUIREMENTS

2. The IC engines respectively (A/C 20279, 20280, 20281 – 20288, 21579) shall operate only for the following purposes and shall not operate more than the following hours.
[Basis: SMAQMD Rule 202]

Type of Operational Hours	Maximum Allowable Operation	
	hours/quarter	hours/quarter
Maintenance Purposes (A)	50	50
All Operation – Maintenance and Emergency (B)	200	200

- (A) Maintenance purposes is defined as: The operation of an IC engine in order to preserve the integrity of the IC engine and its associated generator, the facility's electrical distribution system or when required by SMAQMD to verify compliance with applicable rules and regulations.
 (B) Emergency is defined as: When electrical service from the serving utility is interrupted by an unforeseeable event

VII. INSIGNIFICANT EMISSIONS UNITS

The following systems and equipment are considered insignificant emissions units and are not subject to equipment specific requirements. However, these units are required to comply with all applicable general requirements.

<u>Equipment Category As Listed in the Title V List and Criteria Adopted 03-1985</u>	Equipment	Basis for Exemption
A. Fugitive Emission Sources Associated with Insignificant Activities	1. 5,000 gallon water storage tank 2. Chill water expansion tank 1980 gallons with air separator 3. Chill water expansion tank 1000 gallons with air separator	1 - 3. Insignificant air pollutant sources from these sources
B. Combustion and Heat Transfer Equipment	1. 250,000 BTU/hr heating unit and exclusively fired with natural gas. (qty 1) 2. 400,000 btu/hr heating unit for makeup air exclusively fired with natural gas - separate processes (qty 8) 3. 5 Hp pressure washer, fuel: gasoline 4. Forklift, fuel: propane 5. Propane Fired Barbeque	1, 2, 5. <5,000,000 Btu and exclusively fired with natural gas or LPG (propane) 3,4. Piston-type internal combustion engine with rating <50bhp.
C. Cooling Towers	1. Cooling Towers at 2,700 GPM - Quantity 3 2. Cooling Towers at 3,600 GPM - Quantity 3 3. Cooling Towers at 3,800 GPM - Quantity 9	1 - 3 <10,000 GPM and are not used to cool process water, water from barometric jets or water from barometric condensers
D. Printing and Reproduction Equipment	Office Printers, Fax and copiers	Insignificant air pollutant emissions source
E. Food Processing Equipment	None	N/A

VII. INSIGNIFICANT EMISSIONS UNITS

<u>Equipment Category As Listed in the Title V List and Criteria Adopted 03-1985</u>	Equipment	Basis for Exemption
F. Plastic and / or Rubber Processing Equipment	None	N/A
G. Storage Containers, Reservoirs, and Tanks – Fuel, Fuel Oil and Asphalt	1. See Table 3 for diesel fuel and motor oil	Diesel Fuel and motor oil storage capacity of <19,800 gallons with specific gravity >0.8251
H. Storage Containers, Reservoirs, and Tanks – General Organic and VOC-Containing Material	None	N/A
I. Storage Containers, Reservoirs, and Tanks – Inorganic Material	1. See Table 4	Insignificant air pollutant emissions source
J. Storage Containers, Reservoirs, and Tanks – Liquefied Gases	1. Carbon Dioxide Tanks 2. Propane Tanks	1 - 2. Insignificant air pollutant emissions source
K. Compression and Storage of Dry Natural Gas	None	N/A
L. Transfer Equipment	1. Urea tank has two transfer systems for injection of urea for SCR units	Insignificant air pollutant emissions source
M. Adhesive Application	None	N/A
N. Surface Coating	None	N/A
O. Solvent Cleaning	None	N/A
P. Abrasive Blasting	None	N/A
Q. Brazing, Soldering, Welding and Cutting Torches	None	N/A
R. Solder Leveler, Hydrosqueegee, Wave Solder Machine, or Drag	None	N/A

VII. INSIGNIFICANT EMISSIONS UNITS

<u>Equipment Category As Listed in the Title V List and Criteria Adopted 03-1985</u>	Equipment	Basis for Exemption
Solder Machine		
S. Metal Products	None	N/A
T. Aerosol Can Puncturing or Crushing	None	N/A
U. Biotechnology Manufacturing	None	N/A
V. Textile Dyeing, Stripping or Bleaching	None	N/A
W. Laboratory Fume Hoods and Vents	None	N/A
X. Refrigeration Units	1. 900 ton chillers Quantity 3 2. 1,200 ton chillers Quantity 3 3. 1,725 ton chillers Quantity 6	1 - 3. Not used in conjunction with air pollution control equipment

Table 3 – Tanks for Diesel Fuel

Tank / Container ID#	Contents	Capacity (gal)
Diesel Fuel Storage Tank	Diesel	10,000
Diesel Fuel Storage Tank qty 10	Diesel	12,000 each
Gen1 Belly Tank for Diesel Fuel	Diesel	1,000
Day Tank Diesel Fuel qty 40	Diesel	360 each

VII. INSIGNIFICANT EMISSIONS UNITS

Table 4 Tanks and Containers for Other Products

Tank / Container ID#	Contents	Capacity (gal)
Transformer Oil Filled qty 5	Mineral Oil	2,233 each
T-6 Transformer Oil Filled	Mineral Oil	636
Voltage Regulator qty 9	Mineral Oil	303 each
Radiators associated with emergency diesel generators @ 1200 Striker Ave and 1312 Striker Ave (qty 40)	Propylene Glycol	80 each
Urea Storage Tank for SCRs	Urea	1000
Lead acid batteries – 2400 jars @ 1200 Striker and 1860 jars @ 1312 Striker	Sulfuric Acid 10-30% by weight	10 each
Emergency Generators 1 L sumps qty 40	Lubricating Oil	74 each

DRAFT 6-29-11

VIII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

Acronyms, abbreviations and units of measure used in this permit are defined as follows:

A/C

Authority to Construct

ASTM

American Society for Testing and Materials

BACT

Best Available Control Technology.

CAA

The federal Clean Air Act.

CARB

California Air Resources Board.

CFC

Chloro-fluoro-carbons. A class of compounds responsible for destroying ozone in the upper atmosphere.

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO

Carbon monoxide.

CO2

Carbon dioxide.

ERC

Emission reduction credit.

Federally Enforceable

All limitations and conditions which are enforceable by the Administrator of the U.S. EPA including those requirements developed pursuant to 40 CFR Part 51, Subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP) and Part 72 (Permits Regulation, Acid Rain) including limitations and conditions contained in operating permits issued under a U.S. EPA approved program that has been incorporated into the California SIP.

NESHAP

National Emission Standards for Hazardous Air Pollutants (see 40 CFR Parts 61 and 63).

VIII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

NO_x

Nitrogen oxides.

NSPS

New Source Performance Standards. U.S. EPA standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the federal Clean Air Act and implemented by 40 CFR Part 60 and SMAQMD Regulation 8.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and SMAQMD Rule 202. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O₂

Oxygen.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of ROC, NO_x, SO₂ and PM₁₀.

PM

Particulate matter.

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

P/O

Permit to Operate

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the SMAQMD is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act and implemented by 40 CFR Part 52.

ROC

Reactive organic compounds.

SCR

Selective catalytic reducer. An Air pollution control device used to control NO_x emissions.

VIII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

SIP

State Implementation Plan. CARB and SMAQMD programs and regulations approved by U.S. EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act.

SMAQMD

Sacramento Metropolitan Air Quality Management District.

SO_x

Sulfur dioxides

Title V

Title V of the federal Clean Air Act. Title V requires the SMAQMD to operate a federally enforceable operating permit program for major stationary sources and other specified sources.

TSP

Total suspended particulate.

U.S. EPA

The federal Environmental Protection Agency.

VOC

Volatile Organic Compounds.

DRAFT 6-29-11

VIII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

UNITS OF MEASURE:

BTU	=	British Thermal Unit
cfm	=	cubic feet per minute
cm	=	centimeter
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inch
kg	=	kilogram
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	millimeter
MM	=	million
ppmv	=	parts per million by volume
ppmw	=	parts per million by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
quarter	=	calendar quarter
RVP	=	Reid vapor pressure
scfm	=	standard cubic feet per minute
yr	=	year