

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT STATIONARY SOURCE COMPLIANCE DIVISION PERMIT APPLICATION PROCESSING AND CALCULATIONS	PAGES 12	PAGE 1 7
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Permit to Operate (Change of Conditions)

Applicant Eastern Municipal Water District (EMWD) –Perris Valley
Regional Water Reclamation Facility (PVRWRF)

Mailing Address 2270 Trumble Road
P.O. Box 8300
Perris, CA 92572

Equipment Location 1301 Case Road
Perris, CA 92570

Equipment Description
APPLICATION 529142, FACILITY ID 007417

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL 9390GL, SERIAL NO. C10379/1, NATURAL GAS FIRED, TURBOCHARGED, WATER CONNECTED COOLING, 16-CYLINDER, FOUR CYCLE, LEAN BURN, 2200 BHP, PRECHAMBER DESIN, WITH AN OXIDATION CATALYTIC MUFFLER, ENGLEHARD, MODEL C-41092, DRIVING A 1540 KW EMERGENCY ELECTRICAL GENERATOR.

Background/Process Description

The above application was submitted on November 10, 2011 as a Change of Conditions For a Permit to Operate application type to allow the emergency natural gas fired engine to be used in an interruptible service contract (ISC). This application was determined to be a Change of Conditions, since there is no process change, change in equipment, or increase of emissions. The existing permit for this engine is Permit to Operate F47276, A/N 357663 granted on December 15, 2001 and incorporated into the initial Title V permit on October 31, 2008. This engine is used for electrical generation.

The facility is a municipal water district which accepts and treats municipal sewage and produces recycled water for a 120 square mile area in Perris, Sun City, Romoland, and part of Moreno Valley. Eastern Municipal Water District-Perris Valley Regional Water Reclamation Facility (EMWD-PVRWRF) currently consists of two separate wastewater treatment facilities, a 3 MGD and 8 MGD facility. The 3 MGD facility was originally built in 1982 as a 1 MGD until the capacity was optimized to 3 MGD in 1991. The 8 MGD treatment facility has been in operation since 1994. In 2005, tertiary treatment capacity was added to the facility to treat the secondary effluent from both the 3-MGD and 8-MGD plants. EMWD is in the process of installing a new plant (Plant 3) and modifying the other two plants. Plant expansion is planned for 24.2 MGD. There is no school within 1000 feet of emission source. There have been no complaints and Notices to Comply or Notices of Violation issued to the facility in the last two years.

Emission Calculations

Assume R1 = R2 Emissions are based on operating schedule of 50 hours per year, 4.2 hours per month. The operating period for maintenance and testing shall not exceed 4.2 hours in any one month (see Engineering & Compliance Memo dated March 2, 2000).

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Engine Specifications

Stack exit temperature is 750 °F
 (vs/Ts) x Ta = va
 11,240 acfm x (460 + 60) °R / (460 + 750)°R = 4,830 scfm
 Exhaust flow rate: 11,240 acfm, 4,830 scfm, 289, 825 scfh
 Maximum natural gas consumption: 14,590 cf/hr

CO emissions

Previous application's emissions:
2.0 g/bhp-hr x 2200 bhp x 11b/453.6g = 9.70 lbs/hr = 1.35 lb/day (NSR)

LAER/BACT requirement: 0.6 g/bhp-hr
 0.6g/bhp-hr x 2200 bhp x 11b/453.6g = 2.91 lbs/hr = 0.40 lb/day (NSR)

Emissions based on source test data (8/1/1995):
 0.1 g/bhp-hr x 2200 bhp x 11b/453.6G = 0.49 lbs/hr = 0.07 lb/day (NSR)

NOx emissions

Previous application's emissions:
1.5 g/bhp-hr x 2200 bhp x 11b/453.6g = 7.28 lbs/hr = 1.01 lb/day (NSR)

LAER/BACT requirement: 0.15 g/bhp-hr
 0.15g/bhp-hr x 2200 bhp x 11b/453.6g = 0.73 lbs/hr = 0.10 lb/day (NSR)

Emissions based on source test data (8/1/1995):
 0.2 g/bhp-hr x 2200 bhp x 11b/453.6g = 0.97 lbs/hr = 0.13 lb/day (NSR)
 0.19 g/bhp-hr x 2200 bhp x 11b/453.6g = 0.92 lbs/hr = 0.13 lb/day (NSR)

PM10 emissions

BACT: Clean Fuels Policy (NG & LPG are clean fuels)

7.71E-05 lb/MMBtu[^] x 1MMBtu/1E6Btu x 1050Btu/scf x 14,590 scfh
= 0.001 ~ 0 lbs/hr = 0 lbs/day (NSR)

[^]Based on EPA AP-42, July 2000 Uncontrolled Emission Factors (PM10) for 4-Stroke Lean-Burn Engines

Rule 404 requirement: Exhaust flow rate: 4,830 dscfm, 0.104 grains/dscf
 0.104 grains/dscf x 4,830 dscfm x 60min/hr x 11b/7000grains = 4.31 lbs/hr > 0.001 lbs/hr

ROG emissions

Previous application's emissions:
1.5 g/bhp-hr x 2200 bhp x 11b/453.6g = 7.28 lbs/hr = 1.01 lb/day (NSR)

LAER/BACT requirement: 0.15 g/bhp-hr
 0.15g/bhp-hr x 2200 bhp x 11b/453.6g = 0.73 lbs/hr = 0.10 lb/day (NSR)

Emissions based on source test data (8/1/1995):
 1.79 g/bhp-hr x 2200 bhp x 11b/453.6g = 8.68 lbs/hr = 1.21 lb/day (NSR)

SOx emissions

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LAER/BACT: Clean Fuels Policy (NG & LPG are clean fuels)

$$0.60 \text{ lb/MMscf}^* \times \text{MMscf}/1\text{E}6\text{scf} \times 14,590 \text{ scfh} = 0.01 \text{ lbs/hr} = 0.00 \text{ lbs/day (NSR)}$$

*Based on SCAQMD AER Emission Factors (SO2) for Natural Gas, 4-stroke, LEAN burn ICE.

$$0.000588 \text{ lb/MMBtu}^{\wedge} \times 1\text{MMBtu}/1\text{E}6\text{Btu} \times 1050\text{Btu}/\text{scf} \times 14,590 \text{ scfh} = 0.01 \text{ lbs/hr} = 0.00 \text{ lbs/day (NSR)}$$

[^]Based on EPA AP-42, July 2000 Uncontrolled Emission Factors (SO2) for 4-Stroke Lean-Burn Engines (assuming sulfur content in NG is 2,000 gr/1E6scf).

BACT requirement: Rule 431.1 compliance: 1) Natural gas \leq 16 ppmv, 2) Facility wide emission $<$ 5 lbs/day

- 1) $16 \text{ ppmv} \times 4,830 \text{ dscfm} \times 60 \text{ min/hr} \times \text{lb-mole H}_2\text{S}/379 \times 10^6 \text{ ft}^3 \times \text{lbmole SO}_2/\text{lbmole H}_2\text{S} \times 64.07 \text{ lbs H}_2\text{S}/\text{lbmole SO}_2 = 0.78 \text{ lbs/hr SO}_x \text{ (as SO}_2\text{)}$
- 2) $5 \text{ lbs/day H}_2\text{S} \times \text{lb-mole}/34.08 \text{ lbs H}_2\text{S} \times 64.07 \text{ lbs SO}_x/\text{lb-mole} = 9.40 \text{ lbs/day SO}_x \text{ (as SO}_2\text{)}$
 $= 0.39 \text{ lbs/hr SO}_x \text{ (as SO}_2\text{)}$

$$\begin{aligned} \text{Annual Emissions (AER 2009) SO}_x \text{ emission: } & 0.017 \text{ tons/yr} \\ 0.008 \text{ tons/yr} \times 2000 \text{ lbs/ton} \times 1 \text{ yr}/365 \text{ days} & = 0.043 \text{ lbs/day SO}_x \\ & = 0.002 \text{ lbs/hr SO}_x \end{aligned}$$

Toxic Risk Analysis

Nearest Residential Receptor Distance:	3844 ft. (1172 m)
Nearest Commercial Receptor Distance:	1149 ft. (350 m)
Stack height:	32.5 ft. (9.91 m)
Stack inner diameter:	17 in. (0.43 m)
Rain cap:	Yes
Exhaust flow rate:	11,240 acfm
Building height:	26 ft. (7.92 m)
Building dimensions	59.3 ft. (18.1 m) x 115.3 ft. (35.2 m), 6,843 sq.ft.

Compound	MW (lbs/lbmole)	Outlet emission (lb/hr)
Acetaldehyde	44.06	2.95E-03
Acrolein	56.06	1.81E-03
Benzene	78.11	1.55E-04
1,3-Butadiene	54.09	9.41E-05
Carbon tetrachloride	153.24	1.29E-05
Chlorobenzene	112.56	1.07E-05
Chloroform	119.38	1.00E-05
1,1-Dichloroethane	98.96	8.32E-06
Ethyl benzene	106.16	1.40E-05
Ethylene dibromide	187.88	1.56E-05
Ethylene dichloride	98.96	8.32E-06
Formaldehyde	30.03	1.86E-02
Hexane (n-)		3.91E-04
Methanol	32.04	8.81E-04
Methylene chloride ¹	84.94	7.05E-06
Phenol		8.46E-06
PolyCyclic Aromatic Hydrocarbon (PAHs)	252.3	9.48E-06

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Benzo[b]fluoranthene		5.85E-08
Chrysene		2.44E-07
Naphthalene	128.17	2.62E-05
Styrene	104.16	8.32E-06
1,1,2,2-Tetrachloroethane	167.86	1.41E-05
Toluene	92.13	1.44E-04
1,1,2-Trichloroethane	133.42	1.12E-05
Vinyl chloride	62.5	5.25E-06
Xylenes	106.2	6.48E-05

The emission rates for the toxic air contaminants (TACs) are based on Emission Factors for the Lean Burn Engine Data used in Rule 1401 calculation spreadsheet.

¹ Exempt compounds that are not considered as VOCs by Rule 102.

Tier III analysis was used since the exhaust stack does have a rain cap. Tier III risk analysis was based on the emission rates listed in the above table. Building downwash calculations were based on a building dimensions listed above. The MICR values are determined to be 1.60×10^{-7} for residential and 2.56×10^{-8} for commercial receptors. HIA and HIC were less than 1. Cancer Burden was less than 0.5.

Rules Evaluation

Rule 212: Rule 212 (c)(1)- There is no school within 1000 feet of the facility.
 Rule 212 (c)(2)- On-site emission increases does not exceed the following:

Volatile Organic Compounds	30 lbs/day
Nitrogen Oxides	40 lbs/day
PM10	30 lbs/day
Sulfur Dioxide	60 lbs/day
Carbon Monoxide	220 lbs/day
Lead	3 lbs/day

Rule 212(c)(3)(A)(i)- MICR is below 1 in a million.
Public Notice is not required.

Rule 401: Visible Emissions
 No violations are expected, limits are listed under Rule 401(b)(1).

Rule 402: Nuisance
 Nuisance is not expected with proper operation, monitoring and maintenance. Based on previous operation of the facility for the last two years, compliance is expected. No complaints have been received in the last two years against the facility.

Rule 404: Particulate Matter
 No violations are expected limits are listed under Rule 404 Table 404(a).

Rule 407: Liquid and Gaseous Air Contaminants
 Rule 407 (b)- Provisions of this rule shall not apply to emissions from stationary ICES.

Rule 409: Combustion Contaminants
 Provisions of this rule shall not apply to emissions from ICES.

Rule 431.1: Sulfur Content of Gaseous Fuels

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Rule 431.1(c)(1)- Natural gas contains ≤ 16 ppmv sulfur compounds as H₂S.
Rule 431.1(g)(8)- Any facility which emits less than 5 pounds per day total sulfur compounds, calculated as H₂S from the burning of gaseous fuels other than natural gas (not applicable to (c)(1)).
Compliance is expected.

Rule 53A: Riverside County – Specific Contaminants (Contained in Addendum to Reg IV)
Rule 53(a)- Sulfur compound emission limit, as SO₂ 50,000 ppmv. Compliance can be expected based on other similar category ICE permits issued in SCAQMD.
Rule 53(b)- Fluorine compounds to be controlled to the maximum degree technically feasible. No fluorine potential emission from this equipment. Compliance is expected.

Reg IX: Standards of Performance for New Stationary Sources
Part 60, Chapter I, Title 40 of Code of Federal Regulations, Subpart JJJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
60.4230-Applicability: not applicable.
60.4230(a)- Construction for this ICE did not commence nor was the ICE reconstructed after June 12, 2006.
60.4230(b)- This ICE is not being tested at an engine test cell/stand.
60.4230(f)- This ICE is not a temporary unit.

Reg IX: Part 63, Chapter I, Title 40 of Code of Federal Regulations, Subpart ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
63.6585(a)- Applicability: Applicable.
63.6590(a)(1)(iii)- Stationary RICE at area source of HAP, commenced construction before June 12, 2006.
63.6595(a)(1)- Existing stationary SI RICE located at an area source of HAP shall comply with the applicable emission limitations and operating limitations no later than October 19, 2013.
63.6595(c)- Must meet applicable notification requirements in 63.6645 and in 40CFR63, subpart A.
63.6603- Emission Limitations and Operating Limitations (see 63.6620 & Table 4)
63.6603(a)- Existing stationary RICE at an area source of HAP, must comply with requirements in Table 2d to this subpart and operating limitations in Table 2b to this subpart which apply to you.

Table 2b does not have any requirements for existing emergency RICE > 500HP at an area source of HAP.

Table 2d (5) for Emergency stationary SI RICE:

- (a)- Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (b)- Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and
- (c)- Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

63.6612(a)- Existing stationary RICE located at area source of HAP must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply within 180 days after the compliance date (October 19, 2013) that is specified for your stationary RICE in 63.6595 and according to 63.7(a)(2).

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Table 4 (Requirements for Performance Tests) (1)(a) 4SLB stationary RICE- Reduce CO

(3)(a) Stationary RICE- Limit the concentration of formaldehyde or CO in the exhaust

Table 5 (Initial Compliance w/Emission Limitations & Operating Limitations)

does not have any requirements for existing emergency RICE > 500HP at an area source of HAP.

63.6615- Subsequent performance tests shall be conducted according to Table 3.

Table 3 does not have any requirements for existing emergency RICE > 500 HP at an area source of HAP.

63.6620- Performance Tests and Other Procedures

63.6620(a)- Conduct each performance test in Tables 3 and 4 of this subpart.

63.6620(d)- Conduct three separate test runs for each performance test required in this section, as specified in 63.7(e)(3). Each test run must last at least 1 hour.

63.6620(i)- The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load. A written report of the average percent load determination must be included in the notification of compliance status. (see this section for additional information to be included in the written report).

63.6625- Monitoring, Installation, Collection, Operation, and Maintenance Requirements

63.6625(e)(3)- Existing emergency stationary RICE located at an area source of HAP must operate and maintain the stationary RICE and after-treatment control device according to the manufacturer's emission related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

63.6625(f)- Existing emergency stationary RICE located at an area source of HAP must install a non-resettable hour meter if one is not already installed.

63.6625(h)- Existing stationary engine must minimize the engine's time spent at idle during startup and minimize the engine's start up time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d.

Tables 1a, 2a, 2c do not have any requirements for existing emergency RICE > 500HP at an area source of HAP.

63.6625(j)- Stationary SI engine subject to item 5 in Table 2d has option of utilizing an oil analysis program in order to extend the specified oil change requirement. (see this section for additional information about the oil analysis program).

63.6630(a)- Demonstrate initial compliance with each emission and operating limitation that applies according to Table 5 of this subpart.

63.6630(b)- During initial performance test, must establish each operating limitation in Tables 1b and 2b of this subpart that applies.

Table 1b do not have any requirements for existing emergency SI 4SLB RICE > 500HP at an area source of HAP.

63.6630(c)- Submit Notification of Compliance Status containing the results of the initial compliance demonstration according to requirements in 63.6645.

63.6640(a)- Demonstrate continuous compliance with each emission limitation or operating limitation in Tables 1a, 1b, 2a, 2b, 2c, and 2d to this subpart according to methods in Table 6 to this subpart.

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Table 6 (9) Existing emergency and black start stationary RICE located at an area source of HAP

(a)- Work or management practices

(i)- Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
(ii)- Develop and follow the maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice of minimizing emissions.

63.6640(b)- Report each instance which did not meet each emission limitation or operating limitation in Tables 1a, 1b, 2a, 2b, 2c, and 2d to this subpart that apply. Each instance is a deviation, which must be reported per 63.6650. When the values of operating parameters are reestablished, conduct a performance test to demonstrate compliance.

63.6640(e)- Report each instance which did not meet the requirements of Table 8 in this subpart that applies.

Table 8 General Provisions to Subpart ZZZZ. (see 63 Subpart A for more info)

63.6640(f)(1)- Existing emergency stationary RICE located at an area source of HAP emissions shall comply with (f)(1)(i-iii) or will not be considered an emergency engine.

63.6640(f)(1)(i)- There is no time limit on the use of emergency stationary RICE in emergency situations.

63.6640(f)(1)(ii)- Maintenance checks and readiness testing is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

63.6640(f)(1)(iii)- Operation of the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except for 15 hours per year for a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

63.6645- Notifications

63.6645(a)(2)- Owners and operators of existing stationary RICE located at an area source of HAP, shall submit all of the notifications in 63.7(b) & (c), 63.8(e), (f)(4) & (6), 63.9(b)-(e), (g), & (h) that apply.

63.7(b)(1)- Written notification of source test shall be submitted at least 60 days before the test to approve the test plan and have an observer present.

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63.7(b)(2)- If the performance test will not occur as indicated in the notification, the owner or operator shall notify the Administrator as soon as possible and indicate the rescheduled date.

63.7(c)(1)- Results of the QA program will be used to determine validity of the performance test.

63.7(c)(2)(i)- Owner or operator shall submit a test plan for approval, including a test program summary, test schedule, data quality objectives, and both internal and external QA program.

63.7(c)(2)(ii)- Internal QA program shall include, activities planned by routine operators and analysts to provide an assessment of test data precision,

63.7(c)(2)(iii)- Test shall include a test method performance audit (PA) during the test. PAs consist of blind audit samples supplied by an accredited audit sample provider and analyzed during the test for a measure of test data bias.

63.7(c)(3)- The Administrator will notify owner or operator of approval or intention to deny the test plan within 30 days after receipt of the plan and within 30 days after any supplemental information is submitted.

63.8(e)(2)- Owner or operator shall notify the Administrator in writing of the date of the performance evaluation simultaneously with the notification of the performance test date required under 63.7(b) or at least 60 days prior to the date the performance evaluation is scheduled to begin if no performance test is required.

63.8(e)(3)(i-iii)- Submit a performance evaluation test plan at least 60 days before the test to the Administrator for approval including program objectives, summary, schedule, data quality objectives- pre-evaluation expectations of precision, accuracy, and completeness of data, internal and external QA program- activities planned by routine operators and analysts to provide an assessment of performance and systems audits including opportunity for on-site evaluation by the Administrator of instrument calibration, data validation, sample logging, and documentation of quality control data and field maintenance activities.

63.8(e)(4)- Conduct a performance evaluation of a required CMS during any performance test required under 63.7 according to relevant standard.

63.8(e)(5)- A copy of the written report of the results of the performance evaluation and test as required under 63.7 or within 60 days of completion of the evaluation if no test is required, unless specified in relevant standard.

63.8(f)(4)- If owner or operator want to use an alternative monitoring procedure, must submit an application to the Administrator containing a description of the alternative monitoring system which addresses indicators of performance, measurement techniques, monitoring frequency and averaging time (63.2- monitoring) a performance evaluation test plan, and information justifying the request at least 60 days before the performance evaluation is scheduled to begin. Minor changes may be made in the site-specific performance evaluation plan.

63.8(f)(6)- Alternative to the relative accuracy test for CEMS may be requested for affected sources with emission rates less than 50% of the relevant standard. May petition the Administrator to substitute the relative accuracy test in section 7 of Performance Specification 2 with section 10 if emissions are less than 50% of relevant standard. Petition shall include detailed description of procedures, location and procedure for conducting the alternative, concentration or response levels or the alternative materials and other equipment checks included in the alternative. Administrator may rescind approval of alternative if the CEMS data

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shows that emissions have exceeded 70% of relevant standard. Owner or operator shall notify Administrator within 10 days of such occurrence.

63.9(b)(1)(i)- Initial notifications apply to owner or operator of an affected source when it becomes subject to a relevant standard.

63.9(b)(1)(iii)- Affected sources that are required under this paragraph to submit initial notification may use the application for approval of construction under 63.5(d) to fulfill the requirements

63.9(b)(2)- Affected source that has an initial startup prior to effective date of relevant standard shall notify Administrator in writing not later than 120 calendar days after effective day of relevant standard that the source is subject and indentifying information of the source.

63.9(c)- If owner or operator cannot comply with a relevant standard by the applicable compliance date, or if has installed BACT or technology to meet LAER per 63.6(i)(5), may submit to the Administrator a request for extension of compliance per 63.6(i)(4)-(6).

63.9(d)- Not applicable, since this source is not new.

63.9(e)- Owner or operator shall notify Administrator in writing of intention to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin.

63.9(g)- Affected source required to use CMS shall furnish the Administrator written notification.

63.9(g)(1)- Notification of CMS performance evaluation date shall be submitted simultaneously with notification of performance test date under 63.7(b). If no test is required, shall notify at least 60 calendar days before it is scheduled to begin.

63.9(g)(3)- Notification that criterion necessary to continue use of an alternative relative accuracy testing, per 63.8(f)(6) has been exceed shall be postmarked not later than 10 days after the occurrence including description of the nature and cause of increased emissions.

63.9(h)(2)(i)- Notification of compliance status as required, shall be submitted to the Administrator and signed by the responsible official to certify its accuracy, including: (A) methods used to determine compliance, (B) results of any performance tests, opacity or visible emission observations, CMS performance evaluations, and/or other monitoring procedures or methods conducted, (C) methods used for determining continuing compliance, including description of monitoring and reporting requirements and test methods, (D) type and quantity of hazardous air pollutants emitted by the source, in units and averaging times per test methods, (E) analysis demonstrating whether affected source is a major source, (F) description of APC equipment for each emission point, including control device for each HAP and control efficiency for each control device, and (G) statement by the owner or operator of the affected source whether it has complied with the relevant standard and other requirements.

63.9(h)(2)(ii)- The notification must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration activity specified in the relevant standard (unless a different reporting period is specified in the standard, in which case the letter must be sent before the close of business on the day the report of the relevant testing or monitoring results is required to be delivered or postmarked). For example, the notification shall be sent before close of business on the 60th (or other required) day following completion of the initial performance test and again before the close of business on the 60th (or other required) day following the completion of any subsequent

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required performance test. Notifications may be combined as long as the due date requirement for each notification is met.

63.9(h)(5)- If actual emissions data or control efficiencies per (d)(1)(ii)(H) and (d)(2) of 63.5 was not submitted in application, the actual emissions data or other correct information shall be submitted as soon as available and no later than initial notification of compliance status as required.

63.6645(g)- If a performance test is required, must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 63.7(b)(1).

63.6645(h)- If a performance test or other initial compliance demonstration is required as specified in Tables 4 and 5 to this subpart, submit a Notification of Compliance Status according to 63.9(h)(2)(ii).

63.6650- Reports

63.6650(a)- Submit each report in Table 7 of this subpart that applies.

Table 7 does not have any requirements for existing emergency RICE > 500HP at an area source of HAP.

63.6650(b)- Submit each report according to Table 7 and the requirements in (b)(1)-(9).

63.6650(c)- Compliance report must contain the information in (c)(1)-(6).

63.6650(d)- For each deviation for a RICE not using a CMS, the Compliance report must contain the information in (c)(1)-(4) and (d)(1)-(2)

63.6650(e)- For each deviation from an emission or operating limitation occurring for a stationary RICE using CMS, the Compliance report must contain the information in (c)(1)-(4) and (e)(1)-(12)

63.6650(f)- Each affected source that has obtained a Title V operating permit must report all deviations in the semiannual monitoring report.

63.6655- Records

63.6655(a)(1)- A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 63.10(b)(2)(xiv).

63.6655(a)(2)- Records of the occurrence and duration of each malfunction of operation (process equipment) or the air pollution control and monitoring equipment.

63.6655(a)(3)- Records of performance tests and performance evaluations as required in 63.10(b)(2)(viii).

63.6655(a)(4)- Records of all required maintenance performed on the air pollution control and monitoring equipment.

63.6655(a)(5)- Records of actions taken during periods of malfunction to minimize emissions in accordance with 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal manner of operation.

63.6655(d)- Keep records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies.

63.6655(e)(3)- Keep records of the maintenance conducted on an existing stationary emergency RICE or existing stationary RICE located at an area source of HAP subject to management practices in Table 2d to this subpart to demonstrate the RICE and after-treatment control device were operated and maintained according to the maintenance plan.

63.6655(f)(2)- Existing emergency stationary RICE located at an area source of HAP that do not meet the standards applicable to non-emergency engines must keep records of the

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hours of operation of the engine that is recorded through the non-resettable hour meter. Hours spent for emergency operation, including what classified the operation as emergency and how many hours spent for non-emergency operation must be documented. If the engines are used for demand response operation, must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

63.6660(a)- Records must be in a form suitable and readily available for expeditious review according to 63.10(b)(1).

63.6660(b)- Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record.

63.6660(c)- Keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of the occurrence, measurement, maintenance, corrective action, report, or record.

63.6675- Emergency stationary RICE means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance... Stationary RICE used for peak shaving are not considered emergency stationary RICE. Stationary RICE used to supply power to an electric grid that supply non-emergency power as part of a financial arrangement with another entity are not considered to be emergency engines, except as permitted under 63.6640(f). All emergency stationary RICE must comply with the requirements specified in 63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in 63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

Compliance is expected.

Rule 1110.2: Emissions From Gaseous and Liquid-Fueled Engines

Rule 1110.2(d)- Equipment is exempt under Rule 1110.2(h)(2).

Rule 1110.2(e)(3)- Stationary Engine CEMS

Rule 1110.2(e)(3)(B)- CEMS is not required, see Rule 1110.2(f)(1)(A).

Rule 1110.2(e)(4)(A)- I&M plan has been submitted. Determination has not yet been made for this application.

Rule 1110.2(e)(5)(B)- Engine not subject to Rule 1110.2(d)(1)(E), therefore Rule 1110.2(e)(5) does not apply.

Rule 1110.2(f)(1)- Engine not subject to Rule 1110.2(d)(1), therefore Rule 1110.2(f)(1) does not apply.

Rule 1110.2(f)(3)- All data, logs, test reports and other information required by this rule shall be maintained for at least 5 years and made available for inspection by the Executive Officer.

Compliance with all applicable requirements of this Rule can be expected.

Reg XIII:

Rule 1303(a)- LAER/BACT (major source) is not required, since there is no emission increase. LAER/BACT: CO: 0.60 g/bhp-hr, NOx: 0.15 g/bhp-hr, VOC: 0.15 g/bhp-hr (see BACT determinations A/N 359876).

Rule 1303(b)(1)- Modeling is not required, emergency equipment is exempt from modeling under Rule 1304(a)(4).

Rule 1303(b)(2)- Offsets are not required; emergency equipment is exempt from offsets under Rule 1304(a)(4).

Compliance is expected.

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Rule 1401: Toxic Air Contaminants
 Rule 1401(d)(1)(A)- MICR less than 1.0×10^{-6} .
 Rule 1401(d)(1)(C)- Cancer burden is less than 0.5.
 Rule 1401(d)(2) and Rule 1401(d)(3)- HIC and HIA values are estimated to be less than 1 respectively.
 Compliance is expected

Rule 1401.1: Rule 1401.1(b)- Equipment is exempt since it is located at an existing facility.

Reg. XXX: The change of conditions of the emergency stationary ICE to be used in an interruptible service contact is considered a Title V Minor permit revision under Rule 3000(b)(15), since there is no emission increase and the modification of the equipment does not result in new or additional NSPS or NESHAP requirements and will be subject to an EPA review (Rule 3003 (j)). A public notice is not required.
 Compliance is expected.

Conclusions & Recommendations

The equipment is in compliance with the Rules and Regulations of the SCAQMD. A Permit to Operate is recommended for application 529142. For Permit Conditions please see Sample Permit. A revised Title V permit is recommended after EPA review.