

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

List of approved plans:

Application	Rule
486286	1110.2
541293	3003
543895	3003

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007,LLC**

APPLICATION NUMBER: 486286

**RULE 1110.2 (f) (1) (D) INSPECTION AND MONITORING (I & M) PLAN FOR THE
FACILITY LOCATED AT 1942 VALENCIA AVENUE, BREA, CA 92823.**

Please refer to the application you submitted for the evaluation of your Inspection and Monitoring (I & M) plan under District Rule 1110.2 (f) (1) (D), for the facility described above.

The Rule 1110.2 Inspection & Monitoring plan you submitted has been APPROVED.

A copy of your approved plan, together with any addendum, statements or declarations you provided during the evaluation of your plan, is attached. In accordance with Rule 1110.2 (f)(1)(D)(ix), any change in equipment, control equipment, operating conditions or emission limits will require that you submit an application to the District for the revision of your I & M plan.

January 27, 2012

Mr. Charles Tupac
AQ Analysis & Compliance Supervisor
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765
(909) 396-2684

Subject: Brea Parent 2007, LLC (Facility ID: 113518)
Revised I&M Plan

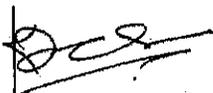
Dear Mr. Tupac:

Enclosed please find the revised Rule 1110.2 Inspection and Monitoring (I&M) Plan for Brea Parent 2007, LLC's (Brea) facility located at 1942 Valencia Avenue in Brea, CA.

We would very much appreciate it if you could replace the original I&M plan that was submitted to the SCAQMD with this revised version since the original plan is presently pending evaluation. The revised I&M plan furnishes the most up to date information regarding the three internal combustion (I.C.) engines operated onsite.

Should you have any questions or comments on the enclosed plan, please do not hesitate to contact me or Mr. Bipul Saraf at (949) 248-8490, x232. Thank you.

Sincerely,



Kedar Desai
Senior Chemical Engineer
Yorke Engineering, LLC
949 248-8490 x233

cc: Gaurang Rawal, SCAQMD
Kevin Hubanks, Brea Parent 2007, LLC
Karl Darrington, Brea Parent 2007, LLC
Judy Yorke, Yorke Engineering, LLC
James Adams, Yorke Engineering, LLC
Bipul Saraf, Yorke Engineering, LLC

**Brea Parent 2007, LLC
1942 Valencia Avenue
Brea, CA 92821**

**SCAQMD Facility ID:
113518**

January 2012

Prepared by:

Yorke
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**Rule 1110.2
Inspection and Monitoring Plan**

Rule 1110.2 Inspection and Monitoring Plan

Prepared for:

Brea Parent 2007, LLC
1942 Valencia Avenue
Brea, CA 92821

SCAQMD Facility ID: 113518

January 2012

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Acronyms and Abbreviations

AFRC	Air-to-Fuel Ratio Controller
bhp	Brake horsepower
CEMS	Continuous Emissions Monitoring System
CO	Carbon Monoxide
DAS	Data Acquisition System
ICE	Internal Combustion Engine
I&M	Inspection and Monitoring
MIL	Malfunction Indicator Light
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NOx	Total oxides of nitrogen: NO plus NO ₂
NSCR	Non-Selective Catalytic Reduction
O ₂	Oxygen
ppm	Parts per million
ppmv	Parts per million on a volume basis
ppmvd	Parts per million on a volume and dry basis
RPM	Revolutions per Minute
QAQCP	Quality Assurance/Quality Control Plan
RATA	Relative Accuracy Test Audit
SCAQMD	South Coast Air Quality Management District
SCR	Selective Catalytic Reduction

Inspection and Monitoring Plan (I&M Plan)

1.0 INTRODUCTION

South Coast Air Quality Management District (SCAQMD) Rule 1110.2 (the Rule) requires facilities that operate non-emergency internal combustion engines (ICEs) to conduct adequate inspection and monitoring (I&M) to ensure that air emissions meet the requirements of the Rule. Brea Parent 2007, LLC (Brea Parent) operates three (3) Cooper Energy Services/Superior engines at their Brea, CA facility. All three engines are lean burn and are fired on landfill gas (LFG). The landfill gas is produced from the local landfill station. Each engine has a NO_x and O₂ CEMS. Since Brea Parent has a NO_x and O₂ CEMS and is not currently required to monitor CO emissions, only the recordkeeping portion of Rule 1110.2(f)(1)(D) is applicable.

1.1 Plan Preparer

This I&M Plan was prepared by **Bipul K. Saraf** of Yorke Engineering, LLC. If there are technical questions regarding this plan, Bipul Saraf's contact information is shown below:

Bipul K. Saraf
Senior Engineer, Yorke Engineering, LLC
Phone: 949-248-8490 x232
Fax: 949-248-8499
Cellular: 949-444-8063
Email: BSaraf@YorkeEngr.Com

1.2 Facility Information

Brea Parent operates three (3) ICEs at their Brea, CA facility. These engines are used to generate power. The facility address and contact information are shown below.

Name of Facility:	Brea Parent 2007, LLC	
SCAQMD ID:	113518	
Site Address	1942 Valencia Ave., Brea, CA 92823	
Mailing Address	1057 East Imperial Highway, PO Box 609, Placentia, CA 92870-1717	
Facility Contact:	Mr. Karl Darrington	Mr. Kevin Hubanks
Phone:	(714) 985-1781	(925) 420-5310
Fax:	(714) 985-1783	(925) 420-5511
Cell:	(714) 476-7723	(925) 708-1601
Email:	kdarrington@broadrock.com	khubanks@broadrock.com

1.3 Equipment Description

Each of the three (3) ICEs is identical: Cooper Energy Services/Superior, Model 16 SGTA, landfill gas fired, turbocharged, intercooled, 4-stroke, lean burn, reciprocating, spark ignition, V-16 type, 2650 BHP driving an 1875 kW electrical generator. Each engine has its own combustion pre-chamber and oxidation catalyst. All three (3) engines share a siloxane removal system that removes siloxanes from the incoming fuel.

List of Engines

Engine ID	SCAQMD Permit		Engine Description			
	A/N	Facility ID	Make	Model	BHP	Fuel
A	414941	113518	Cooper Energy Services/Superior	16 SGTA	2650	Landfill Gas
B	414942	113518	Cooper Energy Services/Superior	16 SGTA	2650	Landfill Gas
C	414943	113518	Cooper Energy Services/Superior	16 SGTA	2650	Landfill Gas

Siloxane Removal System, Combustion Pre-chamber and Catalysts

Engine ID	Siloxane Removal System		Combustion Pre-chamber		Oxidation Catalyst	
	Make	Model	Make	Model	Make	Model
A	Applied Filter Technology	SAG 842D	Cooper Compression	825	EAS Inc.	4-Element
B			Cooper Compression	825	EAS Inc.	4-Element
C			Cooper Compression	825	EAS Inc.	4-Element

2.0 PROCEDURES

2.1 Identification of Engine and Control Equipment Operating Parameters [1110.2(f)(1)(D)(i)]

This I&M Plan must identify “engine and control equipment operating parameters necessary to maintain pollutant concentrations within the rule and permit limits”.

This facility has a NO_x and O₂ CEMS. Thus, it is reasonable to conclude that placing limits on the allowable ranges of the AFRC parameters will have no effect on Brea Parent’s ability to “maintain pollutant concentrations within the rule and permit limits” since Brea Parent is able to continuously monitor NO_x concentration and does not have to rely on an AFRC setpoint determined by a portable analyzer.

This facility is not currently required to conduct periodic portable analyzer monitoring for CO per 1110.2(f)(1)(D)(iii)(III). The previous source tests required by 1110.2(f)(1)(C) have shown the CO concentration to be on the order of two orders of magnitude less than the current limit of 2,000 ppmv @ 15% O₂. Maintaining the oxidation catalyst according to the manufacturer’s specifications and ensuring that the pressure drop across the catalyst does not exceed the maximum specified by the manufacturer should be sufficient to ensure that the emissions of CO from the engines continue to remain well below this limit.

2.1.1 Procedures for Using a Portable Analyzer to Establish AFRC Set Points [1110.2(f)(1)(D)(i)(I)]

Brea Parent operates the facility in such a way that all three ICEs run at full throttle and generate approximately 1600 kW of electricity continuously. To maintain this, Brea Parent adjusts the air manifold pressure setpoint. The setpoint may vary on any given day depending on the ambient conditions. The AFRC will then vary the wastegate valve position in order to maintain the air manifold pressure setpoint. Since all three ICEs are monitored by a NO_x CEMS, the operator is able to view the effect these changes have on the exhaust NO_x concentration on a real-time basis.

This section is not applicable to Brea Parent.

2.1.2 Procedures for Verifying that the AFRC is controlling the Engine to the Set Points [1110.2(f)(1)(D)(i)(II)]

Each day the operator will monitor the engine and control system. The operator will identify AFRC warning lights, alarms and fault codes which indicate that the AFRC is not properly controlling the air-to-fuel ratio. AFRCs will generally signal a fault and alarm if they are not able to adjust the air-to-fuel ratio to the proper set point, and operators can generally rely on the AFRC to detect this problem.

2.1.3 Procedures for Reestablishing AFRC Set Points Using a Portable Analyzer [1110.2(f)(1)(D)(i)(III)]

See the discussion above in Section 2.1.1

This section is not applicable to Brea Parent.

*2.1.4 Maximum Allowed Exhaust Temperature at the Catalyst Inlet
[1110.2(f)(1)(D)(i)(IV)]*

All three ICEs are equipped with an oxidation catalyst. The maximum allowed exhaust temperature at the catalyst inlet is 1,200 Deg F based on the catalyst manufacturer's specifications. Brea Parent will ensure that this limit is not exceeded.

2.1.5 For Lean-Burn Engines with SCR, Minimum Exhaust Temperature at the Catalyst Inlet [1110.2(f)(1)(D)(i)(V)]

None of the ICEs are equipped with an SCR.

This section is not applicable to Brea Parent.

**2.2 Procedures for Alerting the Operator to Emission Control Malfunctions
[1110.2(f)(1)(D)(ii)]**

The facility CEMS alerts Brea Parent to possible emissions exceedences. In the case of an AFRC fault, the AFRC defaults to a "safe mode" that eliminates or reduces excess emissions.

**2.3 Procedures for Periodic Emissions Checks by a Portable NO_x, CO, and oxygen analyzer
[1110.2(f)(1)(D)(iii)]**

All three engines are equipped with a NO_x and O₂ CEMS and do not currently require periodic monitoring for CO per 1110.2(f)(1)(D)(iii)(III).

This section is not applicable to Brea Parent.

2.4 Procedures for Daily Monitoring, Inspection, and Recordkeeping [1110.2(f)(1)(D)(iv)]

Daily monitoring and recordkeeping will be carried out in person. The following parameters will be recorded daily.

2.4.1 Engine Load or Fuel Flow Rate [1110.2(f)(1)(D)(iv)(I)]

The operator will record the engine output. The engine load will be calculated as the ratio of the engine output to the maximum possible output.

*2.4.2 Set Points and Actual Values of Parameters Identified by 1110.2(f)(1)(D)(i)
[1110.2(f)(1)(D)(iv)(II)]*

The operator will record several parameters related to the operation of the engines and the AFRCs. The operator will record the governor (throttle) setting. This is an indication of the amount of fuel being supplied to the engine. The operator will also record the air manifold pressure setpoint and the actual value and the wastegate valve position (% open). Since all three engines are monitored by a NO_x and O₂ CEMS, placing acceptable ranges on any of these parameters will not provide facility operators with any additional information that could alert them to possible emissions exceedences.

Related to the operation of the catalyst, the operator will record the exhaust temperature at the catalyst inlet. This number will be compared with the maximum recommended temperature from the catalyst manufacturer's specifications. If the maximum recommended temperature is exceeded, Brea Parent will ensure that it is reduced to an acceptable level. No other corrective action is necessary. In addition, to ensure that the oxidation catalysts are adequately controlling the CO emissions, Brea Parent will maintain each catalyst according to the manufacturer's specifications, maintain records of these maintenance activities, and monitor and record the pressure drop.

2.4.3 Engine Elapsed Time Meter Operating Hours [1110.2(f)(1)(D)(iv)(III)]

The operator will record the timer readings on a daily basis.

2.4.4 Operating Hours Since Last Emission Check [1110.2(f)(1)(D)(iv)(IV)]

See the discussion above in Section 2.3.

This section is not applicable to Brea Parent.

2.4.5 Exhaust Temperatures at Inlet and Outlet of Catalyst [1110.2(f)(1)(D)(iv)(IV)]

Per the rule language, this subclause is only applicable to rich-burn engines with three-way catalysts.

This section is not applicable to Brea Parent

2.5 Procedures for Responding to, Diagnosing, and Correcting Problems [1110.2(f)(1)(D)(v)]

The operator will consult the chart below in the event of an alarm or other indication that the system is not functioning properly. The operator will report the breakdown to the SCAQMD, if required, and will take corrective action to remedy the problem.

Example Conditions	Fault Code	Probable Cause	Check Parameter	Example Corrective Actions
Black Smoke	Visible Plume	Dirty air or fuel filter	Inspect filters	Change filters
Engine knocking	RPM/Noise	Unequal Engine speed	Verify ignition timing	Adjust ignition timing

2.5.1 Breakdowns Resulting in a Violation of Rule 1110.2 or a Permit Condition [1110.2(f)(1)(D)(v)(I)]

In the event of a breakdown that results in a violation of this rule or a permit condition, Brea Parent will diagnose and correct the problem and ensure that the NO_x emissions monitored by the CEMS have been reduced to a level below the ECF-corrected limit from Table III of Rule 1110.2. This will be done within 24 hours from the time Brea Parent knows or reasonably should have known of the breakdown or excess emissions.

2.5.2 Parameters Out-of-Range [1110.2(f)(1)(D)(v)(II)]

In the event that the exhaust temperature at the catalyst inlet exceeds the maximum recommended temperature from the catalyst manufacturer's specifications (1,200 Deg F), Brea Parent will take steps to ensure that the exhaust temperature at the catalyst inlet is reduced to an acceptable level. No other corrective action or emission checks are necessary. These instances will be reported on the quarterly report required by Rule 1110.2(f)(1)(H)(iii). Brea Parent will follow the reporting procedures from Rule 1110.2(f)(1)(H)(i) and (f)(1)(H)(ii) if any of these instances result in an exceedences of the ECF-corrected NO_x limit from Table III of Rule 1110.2.

1350° F
 per CAV
 Cond #2

In the event that the pressure drop across the catalyst exceeds the maximum as provided by the manufacturer (8" W.C.), Brea Parent will remove the dirty catalyst and replace with fresh catalyst. No other corrective action or emission checks are necessary. These instances will be reported on the quarterly report required by Rule 1110.2(f)(1)(H)(iii).

1.8" per
 Permit con
 #17

2.5.3 Compliance with Breakdown Procedures [1110.2(f)(1)(D)(v)(III)]

In the event of an exceedence of the emission limits of this rule or of a permit condition, Brea Parent will comply with the corrective action requirements noted above in Sections 2.5.1 and 2.5.2 and the reporting requirements from Rule 1110.2(f)(a)(H)(i) and (f)(1)(H)(ii). This will give Brea Parent relief from any enforcement action related to these instances. Since Brea Parent is a Title V facility, this will also satisfy the reporting requirements of Rule 430.

2.6 Procedures for Preventive and Corrective Maintenance [1110.2(f)(1)(D)(vi)]

Brea Parent will maintain the engines according to the schedule below.

Item	Action	Frequency
Air Filter	Check/replace	Manufacturer's recommendation
Fuel filter	Check/replace	Manufacturer's recommendation
Lube oil	Replace lube oil	Manufacturer's recommendation
Spark Plug	Check/replace	Manufacturer's recommendation
Wiring harness	Check/replace	Manufacturer's recommendation

2.7 Procedures for Reporting Noncompliance [1110.2(f)(1)(D)(vii)]

Brea Parent will follow the verbal and written reporting requirements from Rule 1110.2(f)(1)(H)(i) and (f)(1)(H)(ii) in the event of any noncompliance with the emission limits from Rule 1110.2. These requirements are reproduced below.

2.7.1 Verbal Notification [1110.2(f)(1)(H)(i)]

The operator shall report to AQMD, by telephone (1-800-CUT-SMOG or 1-800-288-7664) or other AQMD-approved method, any breakdown resulting in emissions in excess of rule or permit emission limits within one hour of such non-compliance or within one hour of the time the operator knew or reasonably should have known of its occurrence. Such report shall identify the time, specific location, equipment involved, responsible party to contact for further information, and to the extent known, the causes of the non-compliance, and the estimated time for repairs.

Brea Parent is responsible for all verbal notifications.

2.7.2 Written Report [1110.2(f)(1)(H)(ii)]

Within seven calendar days after the reported breakdown has been corrected, but no later than thirty calendar days from the initial date of the breakdown, unless an extension has been approved in writing by AQMD, the operator shall submit a written breakdown report to AQMD (Attn: Compliance) which includes:

- (A) An identification of the equipment involved in causing, or suspected of having caused, or having been affected by the breakdown;
- (B) The duration of the breakdown;
- (C) The date of correction and information demonstrating that compliance is achieved;
- (D) An identification of the types of excess emissions, if any, resulting from the breakdown;
- (E) A quantification of the excess emissions, if any, resulting from the breakdown and the basis used to quantify the emissions;
- (F) Information substantiating whether the breakdown resulted from operator error, neglect or improper operation or maintenance procedures;
- (G) Information substantiating that steps were immediately taken to correct the condition causing the breakdown, and to minimize the emissions, if any, resulting from the breakdown;
- (H) A description of the corrective measures undertaken and/or to be undertaken to avoid such a breakdown in the future; and
- (I) Pictures of any equipment which failed, if available.

Brea Parent will record all of the information listed above on a form. An outside consultant will use this information to prepare the written report for submittal.

Note that the requirements in sections 2.7.1 and 2.7.2 duplicate the requirements of Rule 430 – Breakdowns.

2.8 Procedures for Preparing Quarterly Reports [1110.2(f)(1)(H)(iii)]

Within 15 days of the end of each calendar quarter, i.e., by April 15, July 15, October 15, and January 15, the operator shall submit to AQMD (Attn: Compliance) a report that lists each occurrence of a breakdown, fault, malfunction, alarm, engine or control system operating parameter out of the acceptable range established by an I&M plan or permit condition, or an emission check that finds excess emissions. Such report shall be in an AQMD-approved format, and for each incident shall identify the time of the incident, the time the operator learned of the incident, specific location, equipment involved, and responsible party to contact for further information, to the extent known the causes of the event, the time and description of corrective actions. The operator shall also report if no incidents occurred.

For Brea Parent, these reports will include a list of all events that have been reported to AQMD (emissions exceedences, etc.). These reports will also include a list of all exceedences of the maximum exhaust temperature at the catalyst inlet and the maximum pressure drop across the catalyst.

**2.9 Procedures and Format for Recordkeeping of Monitoring and Other Actions
[1110.2(f)(1)(D)(viii)]**

Brea Parent will maintain the daily logs required by Rule 1110.2(f)(1)(D)(iv) in electronic format. A reproduction of these logs can be found in Appendix C.

2.10 Chain of Command and Duties of Responsible Personnel

This facility is operated and maintained by Brea Parent. Brea Parent has designated the following personnel as responsible for operation and maintenance of the engines:

1. Plant Manager – Karl Darrington

2.11 Procedures for Plan Revisions [1110.2(f)(1)(D)(ix)]

Before any change in I&M Plan operations can be implemented, the revised I&M plan will have to be submitted to and approved by SCAQMD. The operator shall apply for a plan revision prior to any change in emission limits or control equipment. Note that changes to equipment may require submittal of a permit application.

3.0 REFERENCES

This section lists any reference documents not included in the appendices.

1. SCAQMD Rule 1110.2

APPENDIX A – PERMITS

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

PERMIT TO OPERATE

**Permit No. G16274
A/N 414941**

Equipment Description:

LANDFILL GAS PRE-TREATMENT AND CONTROL SYSTEM CONSISTING OF:

1. SILOXANES REMOVAL SYSTEM, APPLIED FILTER TECHNOLOGY, MODEL SAG 842D, WITH TWO VESSELS IN SERIES, COMMON TO THREE INTERNAL COMBUSTION ENGINES.
2. COMBUSTION PRE-CHAMBER FOR ENGINE, COOPER COMPRESSION MODEL 825
3. INTERNAL COMBUSTION ENGINE "A", COOPER ENERGY SERVICES/SUPERIOR, MODEL NO. 16 SGTA, LANDFILL GAS-FIRED, LEAN-BURN, TURBOCHARGED, INTERCOOLED, 4-STROKE, RECIPROCATING, SPARK IGNITION, V-16 TYPE, 2650 H.P., AND DRIVING AN 1875 K.W. ELECTRICAL GENERATOR.
4. OXIDATION CATALYST, EAS INC., 4-ELEMENT.
5. EXHAUST STACK, 17.75 INCH DIA. x 28 FT. H.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. SILOXANE REMOVAL SYSTEM, CONTAINING ADEQUATE QUANTITY OF MEDIA, SHALL BE OPERATED AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
[RULE 204]
4. A FLOW INDICATING AND RECORDING DEVICE SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO EACH ENGINE TO MEASURE AND RECORD THE VOLUMETRIC FLOW RATE OF LANDFILL GAS (IN SCFH) BEING BURNED.
[RULE 1150.1, 1303(b) (2)-OFFSET]
5. THE TOTAL HEATING VALUE OF LANDFILL GAS BURNED IN THIS ENGINE SHALL NOT EXCEED 28.8 MILLION BTU'S PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF GAS BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFH) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b) (2)-OFFSET]

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6. WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN USING LANDTEC GEM 2000 ANALYZER OR EQUIVALENT. ALL RESULTS SHALL BE RECORDED.
[RULE 204]
 7. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
 8. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217]
 9. TWO SAMPLING PORTS SHALL BE MAINTAINED IN THE INTERNAL COMBUSTION ENGINE EXHAUST DUCT 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE AT 90 DEGREES APART AND SHALL CONSIST OF TWO 2-1/2 INCH WELD NIPPLES WITH PLUGS. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]
 10. THE OPERATOR SHALL CONDUCT EQUIPMENT PERFORMANCE TESTS, AT LEAST ONCE EVERY TWO YEARS, OR EVERY 8,760 OPERATING HOURS, IN ACCORDANCE WITH SCAQMD APPROVED PROTOCOL AND TEST PROCEDURES, AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 60 DAYS OF COMPLETION OF TESTS. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS TO THE ENGINE AND THE ENGINE EXHAUST FOR:
 - A. METHANE
 - B. TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOC)
 - C. OXIDES OF NITROGEN (EXHAUST ONLY)
 - D. CARBON MONOXIDE (EXHAUST ONLY - AFTER CATALYST)
 - E. CARBON DIOXIDE
 - F. OXYGEN
 - G. NITROGEN
 - H. MOISTURE CONTENT
 - I. TEMPERATURE
 - J. FLOW RATE
 - K. TOTAL REDUCED SULFUR COMPOUNDS, AS H₂S (INLET)
 - L. TNMOC DESTRUCTION EFFICIENCY, WT%
 - M. BTU CONTENT (INLET ONLY)
 - N. POWER OUTPUT
- [RULE 1110.2, 1150.1, 1303 (a) (1) -BACT, 1303(b) (2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

18. THE CATALYST SHALL BE CHEMICALLY WASHED PER MANUFACTURER'S SPECIFICATIONS. RECORDS OF CHEMICAL WASHINGS AND/OR CATALYST REPLACEMENT SHALL BE MAINTAINED AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204, RULE 1303(a) (1)-BACT]
19. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004(a) (4)]

Emissions and Requirements:

20. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

METHANE: LEAN BURN COMBUSTION ENGINE, OUTLET METHANE
CONCENTRATION TO LESS THAN 3,000 PPMV, DRY BASIS,
CORRECTED TO 15% OXYGEN, RULE 1150.1.

NMOC: 98 % (BY WT) TNMOC DESTRUCTION EFFICIENCY OR IN EXHAUST
20 PPMV, DRY BASIS, AS HEXANE, AT 3% O₂, RULE 1150.1, 40CFR60 SUBPART
WWW

CO: 2000 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER
15 MINUTES, RULE 1110.2.

NOX: 36 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15
MINUTES, RULE 1110.2.

ROG: 40 PPMV, AS CARBON, CORRECTED TO 15% O₂, DRY BASIS, RULE 1110.2.

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

HAP: 40 CFR PART 63 SUBPART ZZZZ



**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

PERMIT TO OPERATE

**Permit No. G16275
A/N 414942**

Equipment Description:

LANDFILL GAS PRE-TREATMENT AND CONTROL SYSTEM CONSISTING OF:

1. SILOXANES REMOVAL SYSTEM, APPLIED FILTER TECHNOLOGY, MODEL SAG 842D, WITH TWO VESSELS IN SERIES, COMMON TO THREE INTERNAL COMBUSTION ENGINES.
2. COMBUSTION PRE-CHAMBER FOR ENGINE, COOPER COMPRESSION MODEL 825
3. INTERNAL COMBUSTION ENGINE "B", COOPER ENERGY SERVICES/SUPERIOR, MODEL NO. 16 SGTA. LANDFILL GAS-FIRED, LEAN-BURN, TURBOCHARGED, INTERCOOLED, 4-STROKE, RECIPROCATING, SPARK IGNITION, V-16 TYPE, 2650 H.P., AND DRIVING AN 1875 K.W. ELECTRICAL GENERATOR.
4. OXIDATION CATALYST, EAS INC., 4-ELEMENT.
5. EXHAUST STACK, 17.75 INCH DIA. x 28 FT. H.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. SILOXANE REMOVAL SYSTEM, CONTAINING ADEQUATE QUANTITY OF MEDIA, SHALL BE OPERATED AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
[RULE 204]
4. A FLOW INDICATING AND RECORDING DEVICE SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO EACH ENGINE TO MEASURE AND RECORD THE VOLUMETRIC FLOW RATE OF LANDFILL GAS (IN SCFH) BEING BURNED.
[RULE 1150.1, 1303(b) (2)-OFFSET]
5. THE TOTAL HEATING VALUE OF LANDFILL GAS BURNED IN THIS ENGINE SHALL NOT EXCEED 28.8 MILLION BTU'S PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF GAS BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFH) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b) (2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

6. WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN USING LANDTEC GEM 2000 ANALYZER OR EQUIVALENT. ALL RESULTS SHALL BE RECORDED.
[RULE 204]
7. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
8. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217]
9. TWO SAMPLING PORTS SHALL BE MAINTAINED IN THE INTERNAL COMBUSTION ENGINE EXHAUST DUCT 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE AT 90 DEGREES APART AND SHALL CONSIST OF TWO 2-1/2 INCH WELD NIPPLES WITH PLUGS. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]
10. THE OPERATOR SHALL CONDUCT EQUIPMENT PERFORMANCE TESTS, AT LEAST ONCE EVERY TWO YEARS, OR EVERY 8,760 OPERATING HOURS, IN ACCORDANCE WITH SCAQMD APPROVED PROTOCOL AND TEST PROCEDURES, AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 60 DAYS OF COMPLETION OF TESTS. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS TO THE ENGINE AND THE ENGINE EXHAUST FOR:
 - A. METHANE
 - B. TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOC)
 - C. OXIDES OF NITROGEN (EXHAUST ONLY)
 - D. CARBON MONOXIDE (EXHAUST ONLY – AFTER CATALYST)
 - E. CARBON DIOXIDE
 - F. OXYGEN
 - G. NITROGEN
 - H. MOISTURE CONTENT
 - I. TEMPERATURE
 - J. FLOW RATE
 - K. TOTAL REDUCED SULFUR COMPOUNDS, AS H₂S (INLET)
 - L. TNMOC DESTRUCTION EFFICIENCY, WT%
 - M. BTU CONTENT (INLET ONLY)
 - N. POWER OUTPUT[RULE 1110.2, 1150.1, 1303 (a) (1)–BACT, 1303(b) (2)–OFFSET]

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

11. EMISSIONS THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:

POLLUTANTS	EMISSIONS PER ENGINE (LB/DAY)
RHC	27
NOX	84
SOX	12
CO	167
PM	1

[RULE 1110.2, 1150.1, 1303 (a) (1)-BACT, 1303 (b) (2) - OFFSET]

12. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE EMISSION OF RAW LANDFILL GAS TO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD MANAGER OF TOXICS AND WASTE MANAGEMENT TEAM WITHIN ONE HOUR OF OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDER TAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 1150.1]
13. THIS EQUIPMENT SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE UNREASONABLY WITH THE ABILITY OF THE LANDFILL OWNER/OPERATOR AND, BREA PARENT, LLC, TO COMPLY WITH DISTRICT RULE 1150.1 OR ANY OTHER DISTRICT RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]
14. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1110.2.
[RULE 1110.2]
15. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST STACK CONCENTRATION FOR NOX AND O₂, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O₂ AND CONTINUOUSLY RECORD THE STACK NOX CONCENTRATION, STACK O₂ CONCENTRATION AND CORRECTED NOX CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218.
[RULE 218, 1110.2]
16. THIS EQUIPMENT SHALL NOT BURN NATURAL GAS OR OTHER AUXILIARY FUEL.
[RULE 1110.2, 1303 (a) (1)-BACT]
17. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE PRESSURE DIFFERENTIAL ACROSS THE CATALYST. WHEN IN OPERATION, THE PRESSURE DIFFERENTIAL ACROSS THE CATALYST SHALL NOT EXCEED 1.8 INCHES OF WATER COLUMN OR AS PER CATALYST SUPPLIER'S SPECIFICATION, WHICHEVER IS GREATER.
[RULE 204, 1303(a) (1)-BACT]

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

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19. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004(a) (4)]

Emissions and Requirements:

20. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

METHANE: LEAN BURN COMBUSTION ENGINE, OUTLET METHANE CONCENTRATION TO LESS THAN 3,000 PPMV, DRY BASIS, CORRECTED TO 15% OXYGEN, RULE 1150.1.

NMOC: 98 % (BY WT) TNMOC DESTRUCTION EFFICIENCY OR IN EXHAUST 20 PPMV, DRY BASIS, AS HEXANE, AT 3% O₂, RULE 1150.1, 40CFR60 SUBPART WWW

CO: 2000 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

NOX: 36 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

ROG: 40 PPMV, AS CARBON, CORRECTED TO 15% O₂, DRY BASIS, RULE 1110.2.

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

HAP: 40 CFR PART 63 SUBPART ZZZZ

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

PERMIT TO OPERATE

**Permit No. G16276
A/N 414943**

Equipment Description:

LANDFILL GAS PRE-TREATMENT AND CONTROL SYSTEM CONSISTING OF:

1. SILOXANES REMOVAL SYSTEM, APPLIED FILTER TECHNOLOGY, MODEL SAG 842D, WITH TWO VESSELS IN SERIES, COMMON TO THREE INTERNAL COMBUSTION ENGINES.
2. COMBUSTION PRE-CHAMBER FOR ENGINE, COOPER COMPRESSION MODEL 825
3. INTERNAL COMBUSTION ENGINE "C", COOPER ENERGY SERVICES/SUPERIOR, MODEL NO. 16 SGTA, LANDFILL GAS-FIRED, LEAN-BURN, TURBOCHARGED, INTERCOOLED, 4-STROKE, RECIPROCATING, SPARK IGNITION, V-16 TYPE, 2650 H.P., AND DRIVING AN 1875 K.W. ELECTRICAL GENERATOR.
4. OXIDATION CATALYST, EAS INC., 4-ELEMENT.
5. EXHAUST STACK, 17.75 INCH DIA. x 28 FT. H.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
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 - B. TOTAL NON-METHANE ORGANIC COMPOUNDS (TNMOC)
 - C. OXIDES OF NITROGEN (EXHAUST ONLY)
 - D. CARBON MONOXIDE (EXHAUST ONLY – AFTER CATALYST)
 - E. CARBON DIOXIDE
 - F. OXYGEN
 - G. NITROGEN
 - H. MOISTURE CONTENT
 - I. TEMPERATURE
 - J. FLOW RATE
 - K. TOTAL REDUCED SULFUR COMPOUNDS, AS H₂S (INLET)
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 - M. BTU CONTENT (INLET ONLY)
 - N. POWER OUTPUT[RULE 1110.2, 1150.1, 1303 (a) (1) –BACT, 1303(b) (2)–OFFSET]

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

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[RULE 1110.2]
15. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST STACK CONCENTRATION FOR NOX AND O2, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O2 AND CONTINUOUSLY RECORD THE STACK NOX CONCENTRATION, STACK O2 CONCENTRATION AND CORRECTED NOX CONCENTRATION AT 15% O2. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218.
[RULE 218, 1110.2]
16. THIS EQUIPMENT SHALL NOT BURN NATURAL GAS OR OTHER AUXILIARY FUEL.
[RULE 1110.2, 1303 (a) (1)-BACT]
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[RULE 204, 1303(a) (1)-BACT]

**FACILITY PERMIT TO OPERATE
BREA PARENT 2007, LLC**

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[RULE 204, RULE 1303(a) (1)-BACT]
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[RULE 3004(a) (4)]

Emissions and Requirements:

20. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

METHANE: LEAN BURN COMBUSTION ENGINE, OUTLET METHANE CONCENTRATION TO LESS THAN 3,000 PPMV, DRY BASIS, CORRECTED TO 15% OXYGEN, RULE 1150.1.

NMOC: 98 % (BY WT) TNMOC DESTRUCTION EFFICIENCY OR IN EXHAUST 20 PPMV, DRY BASIS, AS HEXANE, AT 3% O₂, RULE 1150.1, 40CFR60 SUBPART WWW

CO: 2000 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

NOX: 36 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

ROG: 40 PPMV, AS CARBON, CORRECTED TO 15% O₂, DRY BASIS, RULE 1110.2.

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

HAP: 40 CFR PART 63 SUBPART ZZZZ

APPENDIX B – SCAQMD PLAN SUBMITTAL FORMS

I&M Plan Application Forms

- Form 400-A



South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To:
P.O. Box 4944
Diamond Bar, CA 91785
Tel: (909) 398-3385
www.aqmd.gov

Section A: Operator Information

1. Business Name of Operator To Appear On The Permit:
Ridgewood Power Management, LLC

2. Valid AQMD Facility ID (Available on Permit or Invoice issued by AQMD): **113518**

3. Owner's Business Name (only if different from Business Name of Operator):

Section B: Equipment Location

4. Equipment Location Address:
For equipment operated at various locations in AQMD's jurisdiction, provide address of initial site

1942 Valencia Ave
Street Address

Brea CA **92823**
City State Zip Code

County: Los Angeles Orange San Bernardino Riverside

Contact Name: **Karl Darrington**

Contact Title: **Facility Manager** Phone: **(714) 985-1781**

Fax: **(714) 985-1783** E-Mail: **kdarrington@ridgewoodpowe**

Section C: Permit Mailing Address

5. Permit and Correspondence Information:
 Check here if same as equipment location address

1057 East Imperial Highway, PO Box # 609
Street Address

Placentia CA **92870**
City State Zip Code

Contact Name: **Karl Darrington**

Contact Title: **Facility Manager** Phone: **(714) 985-1781**

Fax: **(714) 985-1783** E-Mail: **kdarrington@ridgewoodpowe**

Section D: Application Type The facility is in RECLAIM Title V RECLAIM & Title V Program (please check if applicable)

6. Reason for Submitting Application (Select only ONE):

New Construction (Permit to Construct) Permitted Equipment Altered/ Modified Without Permit Approval*

Equipment Operating Without A Permit or Expired Permit* Proposed Alteration/Modification to Permitted Equipment

Administrative Change Change of Condition For Permit To Operate

Equipment On-Site But Not Constructed or Operational Change of Condition For Permit To Construct

Title V Application (Initial, Revisions, Modifications, etc.) Change of Location—Moving to New Site

Compliance Plan Existing Or Previous Permit/Application Number:
(If you checked any of the items in this column, you MUST provide a existing Permit/ Application Number)

Facility Permit Amendment

Registration/Certification

Streamlined Standard Permit

* A Higher Permit Processing Fee applies to those items with an asterisk (Rule 301 (c) (1) (D))

7. Estimated Start Date of Operation/Construction (MM/DD/YYYY):

8. Description of Equipment:
Rule 1110.2 I&M Plan.

9. Is this equipment portable AND will it be operated at different locations within AQMD's jurisdiction? No Yes

10. For identical equipment, how many additional applications are being submitted with this application? (Form 400-A required for each) **0**

11. Are you a Small Business as per AQMD's Rule 102 definition? (10 employees or less and total gross receipts are \$500,000 or less, or a not-for-profit training center?) No Yes

12. Has a Notice of Violation (NOV) or a Notice To Comply (NC) been issued for this equipment? No Yes If yes, provide NOV/NC #:

Section E: Facility Business Information

13. What type of business is being conducted at this equipment location?

14. What is your business primary NAICS Code (North American Industrial Classification System)?

15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator? No Yes

16. Are there any schools (K-12) within a 1000-ft. radius of the equipment physical location? No Yes

Section F: Authorization/Signature I hereby certify that all information contained herein and information submitted with this application is true and correct.

17. Signature of Responsible Official:

18. Title: **VP Operations**

19. Print Name: **Kevin Hubanks**

20. Date: **7/31/2008**

Check List:
 Form(s) signed and dated by authorized official.
 Supplemental Equipment Form (400-E-XX or 400-E-GEN)
 CEQA Form (400-CEQA) attached.
 Payment for permit processing fee attached.

Your application will be rejected if any of the above items are missing.

AQMD USE ONLY		APPLICATION/TRACKING #	TYPE B C D	EQUIPMENT CATEGORY CODE:	FEE SCHEDULE: \$	VALIDATION
ENG. A R	ENG. A R	CLASS	ASSIGNMENT	CHECK/MONEY ORDER #	AMOUNT \$	Tracking #
DATE	DATE	I III IV	Unit Engineer			

APPENDIX C – RECORDKEEPING FORMS



**FORM 1: Linearity and Interference Tests Recordkeeping Form
For Portable Analyzers**
SCAQMD RULE 1110.2 Emissions from Gaseous and Liquid-Fueled Engines

DATE: _____ TIME (start/stop): _____ / _____ NAME: _____

ANALYZER (Make/Model): _____ Analyzer S/N: _____

OPERATOR: _____

Dates of Last Cell Replacements: _____ CO: _____ NO: _____ NO₂: _____ O₂: _____

Linearity Check

Date of Last Linearity Check: _____

Requirements:

- * Linearity less than or equal to 3% of the mid span gas concentration
- * Linearity check must be conducted within 12 months of the test date and when an electrochemical cell is replaced.

Interference Check

Date of Last Interference Check: _____

Requirements:

- * Interference response less than or equal to 5% of span gas concentrations
- * Interference check must be conducted within 12 months of the test date and when an electrochemical cell is replaced.

Date of Linearity Check:

Constituent	CO (ppm)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)
Zero Gas				
Mid Span Gas				
High Span Gas				
Reading, Zero				
Reading, Mid				
Reading, High				
Linearity, E _{LIN} , %				
Slope =				
Calculated Mid				

Calculations for Linearity are described in Section 3.6 of the Periodic Monitoring Protocol

Date of CO Interference Check:

Constituent	CO (ppm)	NO (ppm)	NO ₂ (ppm)
Interferent Span Gas Value, C _{NOG} & C _{NO2G}			
CO Response to NO, R _{CO-NO}			
CO Response to NO ₂ , R _{CO-NO2}			
CO Interference, I _{CO} %			

$$I_{CO} = [(R_{CO-NO} / C_{NOG}) + (R_{CO-NO2} / C_{NO2G})] \times 100$$

where: I_{CO} = CO interference response (percent)

R_{CO-NO} = CO response to NO span gas (ppm CO)

C_{NOG} = concentration of NO span gas (ppm NO)

R_{CO-NO2} = CO response to NO₂ span gas (ppm CO)

C_{NO2G} = concentration of NO₂ span gas (ppm NO₂)

CERTIFICATION: Based on the information and belief formed after reasonable inquiry, I certify that the statements and information contained in this report are true, accurate, and complete.

Test Conducted By _____

Signature _____

Title _____

Date _____



FORM 3: Periodic Monitoring Recordkeeping Form For Portable Analyzers

SQAQMD RULE 1110.2 Emissions from Gaseous and Liquid-Fueled Engines

DATE: _____ TIME (start/stop): _____ / _____ NAME: _____

FACILITY NAME: _____ ANALYZER (Make/Model): _____

Facility ID Number: _____ Analyzer S/N: _____

Engine Name: _____ Date of Last Stability Check¹: _____

Permit to Operate: _____ Date of Last Linearity Check²: _____

Application No.: _____

1. Stability check must be conducted within 12 months of test date
2. Linearity check must be conducted within 12 months of test date

"As Found" Test Results Date: _____

Time Start: _____ Ambient Temperature (°F): _____

Time End: _____ Engine Hour Meter Reading: _____

Constituent	CO (ppm)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)
Measured, C _{MEAS} *				
Cal Adjusted, C _{CORR}				

Example Calculation:
$$C_{ADJ} = (C_{MEAS} - C_{CZ}) \times \left(\frac{C_{CAL}}{C_{CM} - C_{CZ}} \right)$$

Engine Operating Conditions:

Constituent	CO (ppm)	NO _x (ppm)
C _{ADJ} @ 15% O ₂ , N		
Compliance Limit		
Difference		

Calibration Results

Date of Pre-Test Calibration: _____

Date of Post-Test Calibration: _____

Constituent	CO (ppm)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)
Pre-Test Zero				
Post-Test Zero				
Mean Zero, C _{CZ}				
Span Gas, C _{CAL}				
Pre-Test Span				
Post-Test Span				
Mean Span, C _{CM}				
Drift, %				

Drift Calculation is listed in Section 3.6, Periodic Monitoring Protocol

"As Left" Test Results (if applicable) Date: _____

Time Start: _____ Ambient Temperature (°F): _____

Time End: _____ Engine Hour Meter Reading: _____

Constituent	CO (ppm)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)
Measured, C _{MEAS} *				
Cal Adjusted, C _{ADJ}				

Engine Operating Conditions:

Constituent	CO (ppm)	NO _x (ppm)
C _{ADJ} @ 15% O ₂ , N		
Compliance Limit		
Difference		

Describe any engine or control system maintenance or tuning conducted after the "As Found" Test to bring the engine into compliance (attach additional documentation as necessary):

* Attach printouts from the portable analyzer or the manual record of constituent concentrations during the test.

CERTIFICATION: Based on the calibrations and measurements performed in accordance with this protocol, I certify that the statements and information contained in this report are true, accurate, complete and representative of the emissions from this source at the time of this test.

Test Conducted By _____

Signature _____

Title _____

Date _____



FORM 4: Stability Check Recordkeeping Form For Portable Analyzers
 SCAQMD RULE 1110.2 Emissions from Gaseous and Liquid-Fueled Engines

DATE: _____ **TIME (start/stop):** _____ / _____ **NAME:** _____

OPERATOR: _____ **Analyzer S/N:** _____

Dates of Last Cell Replacements: _____ **CO:** _____ **NO:** _____ **NO₂:** _____ **O₂:** _____

Date of Last Stability Check: _____

Requirements: * % Deviation either less than or equal to 1% of Span for 15 minutes or 2.5 % for 30 minutes
 * Stability check must be conducted within 12 months of the test date and when an electrochemical cell is replaced.

Date of Stability Check: _____

Elapsed Time (Minutes)	Analyzer Response		
	CO (ppm)	NO (ppm)	NO ₂ (ppm)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Elapsed Time (Minutes)	Analyzer Response		
	CO (ppm)	NO (ppm)	NO ₂ (ppm)
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

		CO	NO	NO ₂
Span Gas Concentration (ppm)				
15-Minute Stability Period	Maximum ppm			
	Minimum ppm			
	% Deviation*			
30-Minute Stability Period	Maximum ppm			
	Minimum ppm			
	% Deviation*			

* % Deviation = 100 x (Max. - Min.) / Span Gas Concentration

CERTIFICATION: Based on the information and belief formed after reasonable inquiry, I certify that the statements and information contained in this report are true, accurate, and complete.

Test Conducted By _____

Signature _____

Title _____

Date _____

APPENDIX D – REPORTING FORMS

Form 500-N – Breakdowns

Rule 1110.2 Quarterly Reports for Stationary Engines



South Coast Air Quality Management District

Form 500-N

Title V - Deviations, Emergencies & Breakdowns

*This written report is in addition to requirements to verbally report certain types of incidents. Verbal reports may be made by calling AQMD at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Mail To:
SCAQMD
P.O. Box 4941
Diamond Bar, CA 91765-0941
Tel: (909) 396-3385
www.aqmd.gov

Section I - Operator Information

1. Facility Name (Business Name of Operator That Appears On Permit): _____ 2. Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): _____

3. Address: _____
(where incident occurred) Street Address

_____ City State CA Zip

4. Mailing Address: _____
(if different from Item 3) Street Address

_____ City State Zip

5. Provide the name, title, and phone number of the person to contact for further information:

Name	Title	Phone #

Section II - Reporting of Breakdowns, Deviations, and Emergencies

1. This written notification is to report a(n):

Type of Incident	Verbal Report Due*	Written Report Due
a. <input type="checkbox"/> Emergency under Rule 3002(g)	Within 1 hour of discovery	Within 2 working days from when the emission limit was exceeded.
b. <input type="checkbox"/> Breakdown under: <input type="checkbox"/> Rule 430 (Non-RECLAIM) <input type="checkbox"/> Rule 2004 (RECLAIM) <input type="checkbox"/> Rule 218 (Non-RECLAIM) [See Rule 218(f)(3)]	For Rules 430 & 2004 - Within 1 hour of discovery. For Rule 218 - Within 24 hours or next business day for failure/shutdown exceeding 24 hours	For Rules 430 & 2004 - Within 7 calendar days after breakdown is corrected, but no later than 30 days from start of the breakdown, unless a written extension is granted. For Rule 218 - With required semi-annual reports.
c. <input type="checkbox"/> Deviation with excess emissions [See Title V Permit, Section K, Condition No. 22B]	Within 72 hours of discovery of the deviation or shorter reporting period if required by an applicable State or Federal Regulation.	Within 14 days of discovery of the deviation.
d. <input type="checkbox"/> Other Deviation [See Title V Permit, Section K, Condition Nos. 22D & 23]	None	With required semi-annual monitoring reports.

2. The incident was first discovered by: _____ on _____ Date Time AM PM

3. The incident was first reported by: _____ on _____ Date Time AM PM

a. Via Phone

b. In Person

Notification Number (Required): _____

4. When did the incident actually occur? _____ Date Time AM PM

AQMD USE ONLY	Received By:		Assigned By:		Inspector:	
	Date/Time Received:		Date/Time Assigned:		Date/Time Received Assignment:	
	Date Delivered To Team:		Date Reviewed Inspector Report:		Date Inspected Facility:	
	Team:	Sector:	Breakdown/Deviation Notification No.		Date Completed Report:	
	Recommended Action:	Cancel Notification	Grant Relief	Issue NOV No. _____	Other: _____	
	Final Action:	Cancel Notification	Grant Relief	Issue NOV No. _____	Other: _____	

5. Has the incident stopped? a. Yes, on: _____ Date _____ Time _____ AM PM b. No
6. What was the total duration of the incident? _____ Days _____ Hours
7. For equipment with an operating cycle, as defined in Rule 430 (b)(3)(A), when was the end of the operating cycle during which the incident occurred? _____ Date _____ Time _____ AM PM
8. Describe the incident and identify each piece of equipment (by permit, application, or device number) affected. Attach photos (when available) of the affected equipment and attach additional pages as necessary.
-
9. The incident may have resulted in a:
- a. Violation of Permit Condition(s): _____
- b. Violation of AQMD Rule(s): _____
10. What was the probable cause of the incident? Attach additional pages as necessary.
-
11. Did the incident result in excess emissions? No Yes (Complete the following and attach calculations.)
- VOC _____ lbs NOx _____ lbs SOx _____ lbs H2S _____ lbs
- CO _____ lbs PM _____ lbs Other: _____ lbs _____ pollutant
12. For RECLAIM facilities Subject to Rule 2004 (i)(3) ONLY: If excess emissions of NOx and/or SOx were reported in Item 11, do you want these emissions to be counted when determining compliance with your annual allocations?
- a. Yes, for: NOx SOx b. No, for: NOx SOx
- If box 12(b) above is checked, include all information specified in Rule 2004(i)(3)(B) and (C), as applicable.
13. Describe the steps taken to correct the problem (i.e., steps taken to mitigate excess emissions, equipment repairs, etc.) and the preventative measures employed to avoid future incidents. Include photos of the failed equipment if available and attach additional pages as necessary.
-
14. Was the facility operating properly prior to the incident?
- a. Yes b. No, because: _____
15. Did the incident result from operator error, neglect or improper operation or maintenance procedures?
- a. Yes b. No, because: _____
16. Has the facility returned to compliance?
- a. No, because: _____
- b. Yes (Attach evidence such as emissions calculations, contemporaneous operating logs or other credible evidence.)

Section III - Certification Statement

I certify under penalty of law that based on information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

For Title V Facilities ONLY: I also certify under penalty of law that that I am the responsible official for this facility as defined in AQMD Regulation XXX.

1. Signature of Responsible Official:	2. Title of Responsible Official:
3. Print Name:	4. Date:
5. Phone #:	6. Fax #:
7. Address of Responsible Official:	
Street # _____	City _____ State _____ Zip _____



South Coast Air Quality Management District
Rule 1110.2 - Quarterly Report for Stationary Engines

Due 15 days after the end of each calendar quarter (January 15, April 15, July 15, October 15)

Fax to 909-396-3343, or Mail to SCAQMD, Attention: Enforcement, P.O. Box 4941, Diamond Bar, CA 91765-0941

Quarter Ended (mm/dd/yyyy) _____ Report Date _____ Page Number ___ of ___

If there were no reportable incidents, enter "None" in box to right, complete Sections I and IV and submit form.

Section I - Facility Information

Permit Issued to (business name of operator that appears on permit): _____ Valid AQMD Facility ID (available on permit or invoice issued by AQMD): _____

Facility Address: _____

City: _____ State: CA Zip Code: _____

Mailing Address (if different): _____

City: _____ State: _____ Zip Code: _____

Name, title and phone number of the person to contact for further information:

Name _____ Title _____ Phone _____

Section II - Previously Reported Engine Breakdowns and Title V Deviations During the Quarter (Attach additional pages if needed.)

Engine Application No.	Type of Incident*	Date of Incident	Date of Written Report

*Enter one of the following: "Breakdown", "Title V Deviation", or "Title V Emergency".

Section III - Other Reportable Incidents During the Quarter (Summarize here, attach additional pages if needed, and complete Section V.)

Engine Application No.	Type of Incident**	Date Operator Learned of Incident

**Enter one of the following: "Air-to-Fuel Ratio Controller Fault or Alarm", "Parameter Out of Range", "Excess Emission Check" or "Other".

Section IV - Certification Statement

I certify under penalty of law that based on information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate and complete.

For Title V Facilities Only: I also certify under penalty of law that I am the responsible official for this facility as defined in AQMD Regulation XXX.

Signature _____ Title _____ Date _____

Type or Print Name _____ Phone _____ Fax _____

Address _____ City _____ State _____ Zip Code _____

Rule 1110.2 Quarterly Report for Stationary Engines

Facility ID: _____ Quarter Ended (mm/dd/yyyy): _____ Page Number ____ of ____

Section V - Information Regarding Incidents Reported in Section III:

Engine Application No.	Engine Description		
Type of Incident*	_____		
Incident Description	_____		
Cause (to extent known) _____			
Corrective Action Taken _____			
<u>Dates and Times of Events</u>			
Incident Began (to extent known)	Operator Discovered	_____	
Corrective Action Started	Compliance Achieved	_____	
Engine Shutdown	Engine Restarted	_____	
	O2, % (dry)	NOx, ppmvd @ 15% O2	CO, ppmvd @ 15% O2
Portable Analyzer Data before Corrective Action (if any)	_____	_____	_____
Portable Analyzer Data after Corrective Action	_____	_____	_____

Engine Application No.	Engine Description		
Type of Incident*	_____		
Incident Description	_____		
Cause (to extent known) _____			
Corrective Action Taken _____			
<u>Dates and Times of Events</u>			
Incident Began (to extent known)	Operator Discovered	_____	
Corrective Action Started	Compliance Achieved	_____	
Engine Shutdown	Engine Restarted	_____	
	O2, % (dry)	NOx, ppmvd @ 15% O2	CO, ppmvd @ 15% O2
Portable Analyzer Data before Corrective Action (if any)	_____	_____	_____
Portable Analyzer Data after Corrective Action	_____	_____	_____

**Enter one of the following: "Air-to-Fuel Ratio Controller Fault or Alarm", "Parameter Out of Range", "Excess Emission Check" or "Other".

(Attach additional pages if needed.)

APPENDIX E – EQUIPMENT SPECIFICATIONS



Karl,

"Brea Parent 2007, LLC operates three (3) identical landfill gas fired, turbocharged, intercooled, reciprocating, spark ignition engines, each rated at 2,650 H.P. Each of these engines is retrofitted with a 4-element oxidation catalyst.

When the catalyst exceeds a pressure drop of 8" w.c. (H₂O column), the catalysts needs to be regenerated."

Karl, if you give us your fax number, we can fax you a signed copy of this letter.

Happy Holidays,

Gary J. Masonick

Gary Masonick
President
EAS Incorporated
619 Michigan Ave
Gladstone, MI 49837
(906) 420-8048
Fax: (906) 420-8123
www.eas-inc.com