

FACILITY PERMIT TO OPERATE

**BREA PARENT 2007,LLC
1942 VALENCIA AVE
BREA, CA 92821**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE BRE A PARENT 2007,LLC

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**FACILITY PERMIT TO OPERATE
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SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: BREA PARENT 2007,LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 1942 VALENCIA AVE
 BREA, CA 92821

MAILING ADDRESS: 1057 E IMPERIAL HWY 609
 PLACENTIA, CA 92870-1717

RESPONSIBLE OFFICIAL: KEVIN HUBANKS

TITLE: OPERATIONS MANAGER

TELEPHONE NUMBER: (925) 708-9601

CONTACT PERSON: KARL DARRINGTON

TITLE: PLANT MANAGER

TELEPHONE NUMBER: (714) 985-1781

INITIAL TITLE V PERMIT ISSUED: October 01, 2007

TITLE V PERMIT EXPIRATION DATE: September 30, 2012

TITLE V		RECLAIM	
YES	NOx:	NO	
	SOx:	NO	
	CYCLE:	0	
	ZONE:	COASTAL	

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SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

NOT APPLICABLE

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SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

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**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application Number	Permit to Operate Number	Equipment description	Page
468740	F92618	FLARE, WASTE/LANDFILL GAS	4
468743	F92619	LANDFILL GAS TREATMENT	7
485956	TBD	I C E-A (2650 HP), LANDFILL GAS, WITH OXIDATION CATALYST	11
485957	TBD	I C E-B (2650 HP), LANDFILL GAS, WITH OXIDATION CATALYST	16
485958	TBD	I C E-C (2650 HP), LANDFILL GAS, WITH OXIDATION CATALYST	21

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT 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 RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
[RULE 401]
2. THE OPERATOR SHALL NOT USE LANDFILL GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 150 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY.
[RULE 431.1]
3. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.1, UNLESS DETERMINED TO BE EXEMPT BY THE EXECUTIVE OFFICER PER RULE 431.1.
[RULE 431.1(g) (9)]
4. THE OPERATOR SHALL INSTALL AND OPERATE AT APPROVED LOCATIONS, CONTINUOUS FUEL GAS MONITORING SYSTEM (CFGMS), CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), OR AN ALTERNATIVE SULFUR MONITORING METHOD AS APPROVED BY THE AQMD
[RULE 431.1]
5. THIS FACILITY SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

GASEOUS EMISSIONS: 1150.1
GASEOUS EMISSIONS: 40 CFR 60 SUBPART WWW
GASEOUS EMISSIONS: 40 CFR 63 SUBPART AAAA
[RULE 1150.1, 40 CFR 60 SUBPART WWW, 40 CFR 63 SUBPART AAAA]
6. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDERS WITH RESPECT TO THE TIME OF DAY.
[RULE 204]

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Permit No. F92618
A/N 468740

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF.

WASTE GAS INCINERATOR, JOHN ZINK, 3'-0" DIAMETER BY 20'-0" HIGH, 2 MILLION BTU PER HOUR, LANDFILL GAS FIRED, VENTING EXHAUSTS FROM SELEXOL AND CONDENSATE STRIPPERS.

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. THE INCINERATOR SHALL BE USED ONLY TO DISPOSE OF THE OVERHEAD STREAM FROM THE SELEXOL AIR STRIPPER AND THE CONDENSATE AIR STRIPPER.
[RULE 1303 (a) (1)-BACT]
4. A TEMPERATURE INDICATOR AND RECORDER SHALL BE INSTALLED AND MAINTAINED TO MEASURE THE INCINERATOR GAS TEMPERATURE.
[RULE 1303 (a) (1) – BACT]
5. WHEN THE INCINERATOR IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1500 DEGREES F. SHALL BE MAINTAINED, AS MEASURED BY THE TEMPERATURE INDICATOR.
[RULE 1303 (a) (1) – BACT]
6. AN AUTOMATIC CONTROL SYSTEM APPROVED BY THE EXECUTIVE OFFICER SHALL BE INSTALLED TO SHUT THE GAS TREATMENT PLANT DOWN IF THE INCINERATOR FAILS OR WHEN THE TEMPERATURE IN THE INCINERATOR DROPS BELOW 1500 DEGREES F/
[RULE 1303 (a) (1) – BACT]
7. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE EXHAUST TEMPERATURE, FOR EACH FLARE, SHALL BE MAINTAINED AT A MINIMUM OF 1,500 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

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CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A TEMPERATURE OF LESS THAN 1,500 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE EXHAUST TEMPERATURE SHALL BE AVERAGED OVER A 15-MINUTE PERIOD, AND HOURLY AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,500 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

8. EMISSIONS FROM THE INCINERATOR SHALL NOT EXCEED THE FOLLOWING LIMITS:

POLLUTANTS	EMISSIONS (LB/HR)
NOX	0.21
CO	0.042
SOX	0.42
PM	0.13
ROG	0.042

[RULE 1303 (b) (2)-OFFSETS]

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Emissions And Requirements:

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

NMOC: 20 PPMV, @3% O₂, DRY BASIS, AS HEXANE, RULE 1150.1

NMOC: 20 PPMV, @3% O₂, DRY BASIS, AS HEXANE, 40CFR60 SUBPART WWW

CO: 2000 PPMV @15%O₂, 15 MINUTE AVERAGE, RULE 407

SOX: 150 PPMV AS H₂S, RULE 431.1

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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Permit No. F92620
A/N 468743

Equipment Description:

LANDFILL GAS TREATMENT SYSTEM CONSISTING OF:

1. LANDFILL GAS CONDENSATE KNOCKOUT VESSEL (V-224), 10,000 GALLON, WITH 25 GPM PNEUMATIC PUMP.
2. PARTICULATE SEPARATOR (V-123), 3'-0" DIAMETER BY 7'-10" HIGH, WITH A 20 GPM PNEUMATIC PUMP.
3. INLET GAS-LIQUID SEPARATOR (V-101) 2'-0" HIGH, WITH TWO 5 HP CONDENSATE PUMPS (P-101 A&B).
4. INLET LANDFILL GAS BOOSTER BLOWER (F-102), 150 HP.
5. GAS COOLER (E-118), 0.25 MMBTU/HR.
6. AIR COOLER (E-102), WITH A 2 HP WATER PUMP (P-115).
7. EXPANSION TANK (V-126), 1'-0" DIAMETER BY 3'-0" HIGH.
8. BOOSTER SCRUBBER (V-127), 2'-6" DIAMETER BY 8'-0" HIGH, WITH A PNEUMATIC SCRUBBER PUMP (P-116).
9. TWO (2) INLET LANDFILL GAS COMPRESSORS (C101 A&B), EACH 400 HP.
10. HEAT EXCHANGER (E-115), GAS/GAS, 0.13 MMBTU/HR.
11. KNOCK-OUT DRUM (V109), COMPRESSOR DISCHARGE, 1'-6" DIAMETER BY 7'-0" HIGH.
12. FEED GAS CHILLER (E-116), 0.24 MMBTU/HR.
13. REFRIGERATION SYSTEM (RS-101), 50 HP, WITH A CHILLED WATER RECIRCULATION PUMP, 3 HP (P-108).
14. ABSORPTION COLUMN (V-102), 2'-0" DIAMETER BY 40'-0" HIGH, SELEXOL.
15. TWO (2) GAS FILTER SEPARATORS (V108 A&B), 1'-6" DIAMETER BY 6'-0" HIGH.
16. TWO (2) RICH SELEXOL FILTERS (V-107 A&B), 1'-6" DIAMETER BY 6'-0" HIGH.
17. HEAT EXCHANGER, (E-103), LEAN/RICH SELEXOL.
18. RICH SELEXOL HEATER (E-114), 0.13 MMBTU/HR.
19. STRIPPER COLUMN (V-104 SELEXOL, 2'-0" DIAMETER BY 4'-0" HIGH, WITH TWO 5 HP SELEXOL PUMPS (P102 A&B), REMOVING HYDROCARBONS FROM SOLVENT (SELEXOL) STREAM VENTED TO AN INCINERATOR.
20. WASTE GAS FILTER SEPARATOR (V-121), 2'-0" DIAMETER BY 4'-0" HIGH.

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21. AIR BLOWER (F-101), TO SELEXOL STRIPPER (V-104) AND CONDENSATE STRIPPER (V-125), 15 HP, WITH AN INLET AIR FILTER (V-122).
22. FIRST STAGE SEPARATOR (V-118), 2'-7" DIAMETER BY 11'-6" HIGH, WITH A CONDENSATE TRANSFER UMP (P-112).
23. CONDENSATE HOLDING TANKS (V-124), 5000 GALLONS, WITH A 1.5 HP CONDENSATE PUMP.
24. CONDENSATE HEATER (E-117), 0.1 MMBTU/HR HOT WATER HEATED.
25. STRIPPER COLUMN (V-125), CONDENSATE, 1'-0" DIAMETER BY 17'-0" HIGH, WITH A ¾ HP WATER DISPOSAL PUMP.
26. CLEAN WATER STORAGE TANK.
27. SECOND STAGE SEPARATOR (V-120) 14'-10" LONG BY 5'-11" WIDE BY 8'-7" HIGH, WITH A DEWATERING PUMP (P-109).
28. HOT WATER EXPANSION TANK (V-106).
29. HOT WATER CIRCULATION PUMPS, 2 HP.
30. THREE (3) WASTE HEAT RECOVERY/SILENCER UNIT (E-105A, B & C), VAPOR PHASE MODEL NO. ECX, 3 MMBTU/HR.

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. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. ALL GASES COLLECTED FROM THE COLLECTION SYSTEM AND TREATED BY THE TREATMENT SYSTEM SHALL BE VENTED TO A COMBUSTION FACILITY WHICH CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND WHICH HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE DISTRICT.
[RULE 204]
5. THE TOTAL FLOW RATE OF THE LANDFILL GAS ENTERING THE TREATMENT SYSTEM SHALL BE CONTINUOUSLY MONITORED AND RECORDED.
[RULE 431.1, RULE 1150.1, AND RULE 1303(b) (2)-OFFSETS]
6. THE METHANE CONCENTRATION (IN PERCENT METHANE) OF THE GAS ENTERING THE TREATMENT SYSTEM SHALL BE CONTINUOUSLY MONITORED AND RECORDED.
[RULE 1150.1]

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7. THE VOLUMETRIC FLOW RATE OF GAS LEAVING THE GAS TREATMENT FACILITY SHALL BE RECORDED BY THE FLOW INDICATING AND RECORDING DEVICE. THE METHANE AND CARBON DIOXIDE CONCENTRATION (IN PERCENT VOLUME) OF THE SALES GAS SHALL BE DETERMINED AND RECORDED DAILY.
[RULE 1150.1; RULE 1303(b) (2)]
8. THE TOTAL SYSTEM VOLUME OF GAS FLOW SHALL NOT EXCEED 2935 STANDARD CUBIC FEET PER MINUTE. (SCFM)
[RULE 1303(b) (2)-OFFSETS]
9. THIS PLANT SHALL NOT BE OPERATED UNLESS THE SOLVENT STRIPPER (V-104) AND THE CONDENSATE STRIPPER (V-125) ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1303(a) (1)-BACT]
10. THIS PLANT SHALL NOT BE OPERATED IF IT DIRECTLY CAUSES THE DETERIORATION OF THE EXISTING OR ANY FUTURE REQUIRED LANDFILL GAS MIGRATION CONTROL SYSTEM OR PREVENTS THE SUCCESSFUL OPERATION OF ANY FUTURE REQUIRED LANDFILL GAS MIGRATION CONTROL SYSTEM.
[RULE 1150.1]
11. CONDENSATE COLLECTED IN THE UNDERGROUND SECOND STAGE SEPARATOR (V-120) SHALL BE MANAGED AS HAZARDOUS WASTE IF IT MEETS THE CRITERIA PROMULGATED FOR THE DETERMINATION OF HAZARDOUS WASTES BY STATE AND FEDERAL PROVISIONS.
[RULE 204]
12. THE VAPOR BALANCE SYSTEM ON THE UNDERGROUND SECOND STAGE SEPARATOR (V-120) SHALL BE OPERATED AT ALL TIMES WHEN LIQUID IS TRANSFERRED FROM THE TANK.
[RULE 204, RULE 1150.1]
13. THE AUTOMATIC CONTROL SYSTEM INSTALLED TO SHUT THE PLANT DOWN SHALL BE ACTIVATED WHEN THE TEMPERATURE IN THE INCINERATOR DROPS BELOW 1500 DEGREES F.
[RULE 1150.1]
14. THE RATE OF SELEXOL SOLVENT RECIRCULATED THROUGH THE ABSORPTION COLUMN (V-102) SHALL NOT BE LESS THAN 2.9 GPM PER MILLION CUBIC FEET PER DAY OF FEED GAS TO THE PLANT.
[RULE 1150.1, RULE 1303(a) (1)-BACT]
15. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS OR CONDENSATE INTO THE ATMOSPHERE.
[RULE 1150.1]
16. ALL RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, RULE 1303(a) (1)-BACT, RULE 1303(b) (2) OFFSET]

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Emissions And Requirements:

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

SOX: 0.2% BY VOLUME @15% O₂, DRY BASIS OR 0.8 % BY WEIGHT (8000 PPMW) H₂S IN FUEL,

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Permit No. TBD
A/N 485956

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 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]

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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]

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18. THE CATALYST SHALL BE CHEMICALLY WASHED PER MANUFACTURER'S SPECIFICATIONS, 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)]
20. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 450 DEGREES FAHRENHEIT BUT LOWER THAN 1350 DEGREES FAHRENHEIT, OR AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION, WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 4% BY MONITORING O2 SENSOR VOLTAGE OUTPUT OR AS PER O2 MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 450 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE GREATER THAN 1350 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS, NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 450 AND 1350 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS. [RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

Emissions and Requirements:

21. 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% O ₂ , RULE 1150.1
NMOC:	20 PPMV, 40CFR60 SUBPART WWW
CO:	2000 PPMV, CORRECTED TO 15% O ₂ , DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.
NOX:	50.8 PPMV (ECF = 1.41), CORRECTED TO 15% O ₂ , DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.
ROG:	250 PPMV, CORRECTED TO 15% O ₂ , DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.
PM:	RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
HAP:	40 CFR PART 63 SUBPART ZZZZ

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PERMIT TO OPERATE

Permit No. TBD
A/N 485957

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 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 110.2, 1150.1, 1303 (a) (1)-BACT, 1303(b)(2)-OFFSET]

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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]

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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)]
20. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 450 DEGREES FAHRENHEIT BUT LOWER THAN 1350 DEGREES FAHRENHEIT, OR AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION, WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 4% BY MONITORING O2 SENSOR VOLTAGE OUTPUT OR AS PER O2 MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 450 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE GREATER THAN 1350 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 450 AND 1350 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS. [RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

Emissions and Requirements:

21. 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

NMOC: 20 PPMV, 40CFR60 SUBPART WWW

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

NOX: 53.6 PPMV (ECF = 1.49), CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

ROG: 250 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, 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. TBD
A/N 485958

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.
[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 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

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]

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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)]

20. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 450 DEGREES FAHRENHEIT BUT LOWER THAN 1350 DEGREES FAHRENHEIT, OR AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION, WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 4% BY MONITORING O₂ SENSOR VOLTAGE OUTPUT OR AS PER O₂ MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 450 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE GREATER THAN 1350 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 450 AND 1350 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF

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DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS. [RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

Emissions and Requirements:

21. 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

NMOC: 20 PPMV, 40CFR60 SUBPART WWW

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

NOX: 49.7 PPMV (ECF = 1.38), CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

ROG: 250 PPMV, CORRECTED TO 15% O₂, DRY BASIS, AVERAGED OVER 15 MINUTES, RULE 1110.2.

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

HAP: 40 CFR PART 63 SUBPART ZZZZ

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COOLING TOWER

Emissions And Requirements:

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

VOC: RULE 442

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SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

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SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

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SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.

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SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
 - c. Operating conditions under which the test was performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

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**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
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**Permit to Construct and Temporary Permit to Operate
(Section H)**

This section consists of a table listing all individual Permits to Construct issued to various equipment at the facility. Each permit will list operating conditions, including periodic monitoring requirements and applicable emission limits and requirements. Also included are the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AT THIS FACILITY:

Application number	Equipment Description	Page Number
474009	Landfill Gas, Treatment (Siloxanes Removal)	3
475036	Flare, Landfill/Digester Gas, Enclosed	5
474001	Gas Turbine, NO.1	10
474002	Gas Turbine, NO.2	14
474003	Gas Turbine, NO.3	18
474004	Gas Turbine, NO.4	22
474005	Air Pollution Control System (SCR), No.1	26
474006	Air Pollution Control System (SCR), No.2	29
474007	Air Pollution Control System (SCR), No.3	32
474008	Air Pollution Control System (SCR), No.4	35
487106	Storage Tank, Aqueous Ammonia	38

NOTE: EQUIPMENT LISTED ABOVE ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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PERMIT TO CONSTRUCT

A/N 474009
Granted: 01-06-2005

Equipment Description:

LANDFILL GAS (LFG) PRE-TREATMENT SYSTEM, 12,000 SCFM MAXIMUM CAPACITY, CONSISTING OF EQUIPMENT EQUIVALENT TO THE FOLLOWING:

1. INLET KNOCKOUT DRUM,
2. FOUR BOOSTER BLOWERS,
3. TWO LFG COOLERS,
4. THREE LFG CHILLERS,
5. MOISTURE SEPARATOR,
6. FIVE COMPRESSORS, FIRST STAGE,
7. GAS COOLER MOISTURE SEPARATOR,
8. PRIMARY SILOXANE ADSORPTION SYSTEM, DOMNICK HUNTER WITH PRE-FILTER, EIGHT VESSELS, TWO ELECTRIC HEATERS, TWO PURGE AIR BLOWERS, AND AFTER-FILTER,
9. THREE COMPRESSORS, SECOND STAGE,
10. TWO GAS COOLERS AND TWO MOISTURE SEPARATORS,
11. SECONDARY SILOXANE ADSORPTION SYSTEM, DOMNICK HUNTER WITH PRE-FILTER, FOUR VESSELS, ONE ELECTRIC HEATER, ONE PURGE AIR BLOWER, AND AFTER-FILTER.

Conditions:

1. CONSTRUCTION AND 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. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLE SHOULD HAVE KNOW OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, AND 430]

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4. THIS EQUIPMENT SHALL BE VENTED ONLY TO AN AIR POLLUTION CONTROL DEVICE WITH A VALID PERMIT TO CONSTRUCT OR OPERATE ISSUED BY THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT.
[RULE 204, RULE 1303(a)(1) BACT]
5. PRIOR TO INSTALLATION, THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO AND OBTAIN APPROVAL FROM THE SCAQMD, THE LANDFILL GAS TREATMENT SYSTEM DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE , MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY), AND OTHER VENDOR DATA. ADDITIONAL CONDITIONS MAY BE IMPOSED AS PART OF THE APPROVAL.
[RULE 204]
6. THE SPENT MEDIA REMOVED FROM THIS SYSTEM SHALL BE MAINTAINED OR STORED IN CLOSED CONTAINERS PRIOR TO REMOVAL FROM THE FACILITY
[RULE 402]
7. THE OPERATOR SHALL QUANTIFY AND RECORD THE TOTAL QUANTITY OF GAS TREATED.
[RULE 1303 (b)(2)-OFFSETS]
8. THE OPERATOR SHALL INSTALL AND MAINTAIN AN ADEQUATE NUMBER OF SAMPLING PORTS, IN THE INLET GAS LINE TO THE LANDFILL GAS TREATMENT SYSTEM, AND PROVIDE SAFE ACCESS TO THESE SAMPLING PORTS IN ACCORDANCE WITH RULE 217 AND SCAQMD APPROVAL.
[RULE 217]
9. ALL LANDFILL GAS ACCEPTED FROM THE LANDFILL FOR COMBUSTION IN THE GAS TURBINES, SHALL BE PROCESSED BY LANDFILL GAS PRE-TREATMENT SYSTEM
[RULE 1150.1, 1303(a)(1)-BACT]

EMISSION AND REQUIREMENTS

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
TOTAL SULFUR AS H₂S: 150 PPMV RULE 431.1

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PERMIT TO CONSTRUCT

A/N 475036
Granted: 01-22-2010

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF EQUIPMENT EQUIVALENT TO THE FOLLOWING:

1. FLAME ARRESTOR,
2. EXHAUST SYSTEM VENTING LANDFILL GAS (LFG) PRE-TREATMENT SYSTEM,
3. FLARE, JOHN ZINK, 13.5 MM BTU/HR.

Conditions:

1. CONSTRUCTION AND 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. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. PRIOR TO INSTALLATION, THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO AND OBTAIN APPROVAL FROM THE SCAQMD, THE LANDFILL GAS FLARING SYSTEM DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY), AND OTHER VENDOR DATA. ADDITIONAL CONDITIONS MAY BE IMPOSED AS PART OF THE APPROVAL.
[RULE 204]
5. FOUR (4) SAMPLING PORTS SHALL BE PROVIDED IN THE FLARE STACK AT LEAST ONE HALF DUCT DIAMETERS UPSTREAM OF THE FLARE OUTLET, 90 DEGREES APART. EACH SAMPLING PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH A PLUG. ALL PORTS SHALL BE PROPERLY CENTERED. AN EQUIVALENT METHOD OF EMISSION SAMPLING MAY BE USED UPON APPROVAL BY THE EXECUTIVE OFFICER. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 48 HOURS NOTICE BY SCAQMD.
[RULE 217]
6. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF AN INLET GAS SAMPLE.
[RULE 217]
7. THE FLARE SHALL BE EQUIPPED WITH AT LEAST ONE TEMPERATURE INDICATOR AND A RECORDING DEVICE WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDING DEVICE SHALL OPERATE

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WHENEVER THE FLARE IS IN OPERATION. THE TEMPERATURE SHALL BE MEASURED AT A LOCATION ABOVE THE FLAME ZONE AT LEAST 0.6 SECOND DOWNSTREAM OF THE BURNER AND NOT LESS THAN ONE STACK DIAMETER FROM THE TOP OF THE STACK.
[RULE 217]

8. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES FAHRENHEIT AS MEASURED BY AN APPROVED TEMPERATURE INDICATOR SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303(a)(1)-BACT, RULE 1401]
9. THE FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-DOWN SYSTEM WITH A FAILURE ALARM, WHICH HAS BEEN APPROVED BY THE SCAQMD, TO AUTOMATICALLY ISOLATE THE FLARE FROM THE LANDFILL GAS SUPPLY LINE, SHUT OFF THE BLOWER AND IMMEDIATELY NOTIFY A RESPONSIBLE PARTY OF THE SHUT-DOWN.
[RULE 1303(a)(1)-BACT, RULE 1401]
10. THE AUTOMATIC SHUT DOWN SAFETY SYSTEM SHALL BE TESTED ANNUALLY FOR PROPER OPERATION AND RESULT RECORDED.
[RULE 204]
11. A CONTINUOUS FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED IN THE FLARE.
[RULE 1303(b)(2)-OFFSET, RULE 1401]
12. THE HEAT INPUT TO THE FLARE SHALL NOT EXCEED 13.65 MILLION BTU PER HOUR
[RULE 1303(b)(2)-OFFSETS]
13. EMISSIONS FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/DAY
PM10	6
NMHC	1
NOX	8
SOX	6

[RULE 1303(b)(2)-OFFSETS]
14. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLE SHOULD HAVE KNOW OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, AND 430]
15. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 204]

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16. THE FLARE SHALL BE EQUIPPED WITH A SUFFICIENT NUMBER OF VIEW PORTS TO ALLOW VISUAL INSPECTION OF THE FLAME HEIGHT WITH THE FLARE AT ALL TIMES. THE VIEW PORTS SHALL BE LOCATED AT THE ELEVATION OF THE TEMPERATURE SENSOR LOCATION. SAFE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY SCAQMD PERSONNEL.
[RULE 217]
17. THE FLARE SHALL BE DESIGNED AND OPERATED SO THAT THE FLAME IN THE FLARE REMAINS BELOW THE HEIGHT OF THE FLARES OPERATING THERMOCOUPLE AT ALL TIMES.
[RULE 1303(a)(1)-BACT]
18. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES FAHRENHEIT.
[RULE 204]
19. THE OPERATOR SHALL ANNUALLY (WITHIN 45 DAYS OF THE ANNIVERSARY OF THE INITIAL TEST) CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF THE TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A TEST OF THE INLET AND OUTLET OF THE AIR POLLUTION CONTROL (APC) SYSTEM FOR:
- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS
 - B. CARBON MONOXIDE (OUTLET OF THE APC)
 - C. CARBON DIOXIDE (INLET AND OUTLET OF THE APC)
 - D. OXIDES OF NITROGEN, EXPRESSED AS NITROGEN DIOXIDE (OUTLET OF THE APC)
 - E. TOTAL PARTICULATES (OUTLET OF THE APC)
 - F. TOXIC AIR CONTAMINANTS (INLET AND OUTLET OF THE APC) INCLUDING BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1, 1 DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
 - G. OXYGEN
 - H. MOISTURE CONTENT
 - I. TEMPERATURE.
 - J. EXHAUST FLOW RATE.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR) POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 3% O₂ (CO, NO_x, AND TNMHC).
[RULE 1303(a) (1) BACT), RULE 1303(b) (1)-MODELING, RULE 1303(b)(2)-OFFSET, RULE 1401, RULE 3004(A)(4)]

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20. IF THE SOURCE TEST INDICATES THAT ADDITIONAL TOXIC AIR CONTAMINANT COMPOUNDS ARE EMITTED FROM THIS EQUIPMENT WHICH WERE NOT COVERED IN THE APPROVED TIER IV MODEL, OR THAT THE TAC EMISSION RATES ARE SIGNIFICANTLY DIFFERENT FROM THE PREVIOUSLY EVALUATED TAC EMISSIONS, THE APPLICANT SHALL RESUBMIT A TIER IV MODEL WHICH INCLUDES THE ADDITIONAL TOXIC AIR CONTAMINANTS, AND REFLECTS THE ACTUAL TAC EMISSION RATES.
[RULE 1401]

21. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE EXHAUST TEMPERATURE, FOR THE FLARE, SHALL BE MAINTAINED AT A MINIMUM OF 1,400 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A TEMPERATURE OF LESS THAN 1,400 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE EXHAUST TEMPERATURE SHALL BE AVERAGED OVER A 15-MINUTE PERIOD, AND HOURLY AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,400 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

22. THE FLARE SHALL NOT COMBUST MORE THAN 27,000 CUBIC FEET PER HOUR OF LANDFILL GAS.
[RULE 1303(b) (2)-OFFSETS]
23. AT LEAST ONCE PER WEEK, THE OPERATOR SHALL QUANTIFY AND RECORD THE BTU OR METHANE CONTENT OF THE LANDFILL GAS USED TO FIRE THE FLARE.
[RULE 204, RULE 1303(b)(2)-OFFSETS]

EMISSIONS AND REQUIREMENTS

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

NOX: 0.025 LB/MMBTU, RULE 1303-BACT
CO: 0.060 LB/MMBTU, RULE 1701(b)(1)-BACT
NMOC: 20 PPMV @ 3% O₂, DRY BASIS, AS HEXANE, OR 98% (BY WT) RULE 1150.1
NMOC: 20 PPMV @ 3% O₂, DRY BASIS, AS HEXANE, OR 98% (BY WT) 40CFR60 SUBPART WWW
CO: 2000 PPMV @ 15% O₂, DRY, 15 MIN. AVERAGE, RULE 407
SOX: 150 PPMV AS H₂S, DAILY AVERAGE, RULE 431.1
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

PERMIT TO CONSTRUCT

A/N 474001

Granted: 01-22-2010

Equipment Description:

RESOURCE RECOVERY/LANDFILL GAS TO ENERGY SYSTEM NO.1 CONSISTING OF:

1. GAS TURBINE, NO.1, SOLAR, MODEL TAURUS 60 7900 SERIES, LANDFILL GAS FIRED, DRIVING A 5.6 MW GENERATOR,
2. HEAT RECOVERY STEAM GENERATOR,
3. STEAM TURBINE/GENERATOR [COMMON TO SYSTEMS NO.2, 3, AND 4],

Conditions:

1. CONSTRUCTION AND 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. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE EXHAUST GAS IS VENTED TO AIR POLLUTION CONTROL SYSTEM NO.1 WHICH IS IN FULL OPERATION AND WHICH HAS A VALID PERMIT FROM THE AQMD.
[RULE 1303(a)(1)-BACT, RULE 1701(b)(1)-BACT, RULE 1401]
4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO THE SCAQMD FOR PRE-INSTALLATION APPROVAL, THE GAS TURBINE FINAL DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AT LEAST 60 DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT
[RULE 204]
5. A CONTINUOUS FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]
6. THE OPERATOR SHALL MEASURE AND RECORD, THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO EACH GAS TURBINE AT LEAST ONCE PER WEEK USING AN INSTRUMENT APPROVED BY THE SCAQMD.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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7. THE TOTAL HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINE SHALL NOT EXCEED 72 MMBTU/HR, BASED ON A 24 HOURS AVERAGE. THE OPERATOR SHALL DETERMINE THE TOTAL HEAT INPUT OF THE LANDFILL GAS AT LEAST ONCE EVERY EIGHT HOURS OF OPERATION, AND MAINTAIN A LOG INDICATING THE TOTAL HEATING VALUE OF THE LANDFILL GAS BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE AND THE LATEST BTU CONTENT READING.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4), RULE 1401]
8. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
9. THE OPERATOR SHALL DIRECT ALL LANDFILL GAS WHICH IS NOT BURNED IN THIS EQUIPMENT TO ANOTHER COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, AND CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND WHICH HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a)(1)-BACT]
10. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLE SHOULD HAVE KNOW OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, AND 430]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN AN ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS. IN THE EXHAUST STACK AND PROVIDE SAFE ACCESS TO THESE SAMPLING PORTS IN ACCORDANCE WITH RULE 217 AND SCAQMD APPROVAL.
[RULE 217]
12. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR NOX, AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(B)(2)-OFFSET, 3004(a)(4)]
13. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR CO. AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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 BREA PARENT 2007, LLC**

14. WITHIN 180 DAYS AFTER INITIAL START-UP AND ANNUALLY (WITHIN 45 DAYS OF THE ANNIVERSARY OF THE INITIAL TEST) THEREAFTER, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF THE TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A TEST OF THE INLET AND OUTLET OF THE LANDFILL GAS TURBINE EXHAUST AIR POLLUTION CONTROL SYSTEM (APCS) AND THE INLET AND OUTLET TO THE LANDFILL GAS TREATMENT SYSTEM (LGTS) FOR:
- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS (INLET AND OUTLET OF THE APCS).
 - B. CARBON MONOXIDE (INLET AND OUTLET OF THE APCS).
 - C. CARBON DIOXIDE (OUTLET OF THE APCS).
 - D. OXIDES OF NITROGEN (INLET AND OUTLET OF THE APCS).
 - E. TOTAL PARTICULATES (OUTLET OF THE APCS).
 - F. AMMONIA (OUTLET OF THE APCS).
 - G. TOTAL REDUCED SULFUR, AS H₂S (OUTLET OF THE LGTS).
 - H. FORMALDEHYDE, AND ALDEHYDES (OUTLET OF THE APCS).
 - I. TOXIC AIR CONTAMINANTS (INLET AND OUTLET OF THE APCS) INCLUDING BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1, 1 DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1,-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
 - J. OXYGEN
 - K. MOISTURE CONTENT
 - L. TEMPERATURE.
 - M. EXHAUST FLOW RATE.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR) POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O₂ (CO, NOX, AND TNMHC). THE REPORT SHALL ALSO PROVIDE THE DEMONSTRATED EFFICIENCY OF THE GAS TURBINE, AT FULL LOAD, IN BTU/KW-HR, CORRECTED TO THE HIGHER HEATING VALUE (HHV) OF THE FUEL, THE AQUEOUS AMMONIA INJECTION RATE, NOX CONTROL EFFICIENCY, AND CO CONTROL EFFICIENCY OF THE APCS.

[RULE 1303(a)(1) BACT), RULE 1303(b)(1)-MODELING, RULE 1303(b)(2)-OFFSET, RULE 1401, RULE 3004(A)(4)]

15. THE EMISSIONS FROM THE GAS TURBINE EXHAUST STACK SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/DAY
NOX (AS NO ₂)	170
PM10	36
TGNMOC (AS CH ₄)	12
SOX (AS SO ₂)	33

[RULE 1303(b)(2)-OFFSET]

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16. EMISSIONS OF CARBON MONOXIDE SHALL NOT EXCEED 130 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1701(b)(1)-BACT]
17. EMISSIONS OF NO_x SHALL NOT EXCEED 25 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1303(a)(1)-BACT, 1303 (b)(1)-MODELING, 1303(b)(2)-OFFSET]
18. THIS EQUIPMENT SHALL BE FIRED ONLY WITH LANDFILL GAS, EXCEPT WHEN PROPANE IS USED TO IGNITE THE TURBINE DURING A START-UP.
[RULE 204]
19. IF THE SOURCE TEST INDICATES THAT ADDITIONAL TOXIC AIR CONTAMINANT (TAC) COMPOUNDS ARE EMITTED FROM THIS EQUIPMENT WHICH WERE NOT COVERED IN THE APPROVED TIER IV MODEL, OR THAT THE TAC EMISSION RATES ARE SIGNIFICANTLY DIFFERENT FROM THE PREVIOUSLY EVALUATED TAC EMISSIONS, THE APPLICANT SHALL RESUBMIT A TIER IV MODEL AND CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA), AND CHRONIC HAZARD INDEX (HIC) BASED ON THE SOURCE TEST RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0) TO DETERMINE COMPLIANCE WITH RULE 1401. THE RESULTS SHALL BE SUBMITTED TO AQMD WITHIN 90 DAYS AFTER THE INITIAL TESTING IS COMPLETED.
[RULE 1401]
20. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

EMISSIONS AND REQUIREMENTS

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - CO: 2000 PPMV, DRY, 15 MIN. AVG. RULE 407
 - CO: 130 PPMV, DRY, 60 MIN. AVG. RULE 1701(b)(1) BACT
 - NOX: 25 PPMV, @15% O₂, DRY, 60 MIN. AVG., RULE 1303 BACT.
 - PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
 - NMOC: 20PPMV, AS HEXANE@ 3%O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1, 40 CFR 60 SUBPART WWW, 40 CFR 63 SUBPART AAAA.
 - SOX: 0.2% RULE 53
 - SOX: 0.9 lb/MWh, OR 0.06 lb/MMBtu, 40 CFR 60 SUBPART KKKK
 - NOX: 96 PPM @ 15% O₂, OR 5.5 lb/MWh, 40 CFR 60 SUBPART KKKK

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

PERMIT TO CONSTRUCT

A/N 474002

Granted: 01-22-2010

Equipment Description:

RESOURCE RECOVERY/LANDFILL GAS TO ENERGY SYSTEM NO.2 CONSISTING OF:

1. GAS TURBINE, NO.2, SOLAR, MODEL TAURUS 60 7900 SERIES, LANDFILL GAS FIRED, DRIVING A 5.6 MW GENERATOR
2. HEAT RECOVERY STEAM GENERATOR.
3. STEAM TURBINE/GENERATOR [COMMON TO SYSTEMS NO.1, 3, AND 4]

Conditions:

1. CONSTRUCTION AND 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. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE EXHAUST GAS IS VENTED TO AIR POLLUTION CONTROL SYSTEM NO.2 WHICH IS IN FULL OPERATION AND WHICH HAS A VALID PERMIT FROM THE AQMD.
[RULE 1303(a)(1)-BACT, RULE 1701(b)(1)-BACT, RULE 1401]
4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO THE SCAQMD FOR PRE-INSTALLATION APPROVAL, THE GAS TURBINE FINAL DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AT LEAST 60 DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT
[RULE 204]
5. A CONTINUOUS FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]
6. THE OPERATOR SHALL MEASURE AND RECORD, THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO EACH GAS TURBINE AT LEAST ONCE PER WEEK USING AN INSTRUMENT APPROVED BY THE SCAQMD.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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7. THE TOTAL HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINE SHALL NOT EXCEED 72 MMBTU/HR, BASED ON A 24 HOURS AVERAGE. THE OPERATOR SHALL DETERMINE THE TOTAL HEAT INPUT OF THE LANDFILL GAS AT LEAST ONCE EVERY EIGHT HOURS OF OPERATION, AND MAINTAIN A LOG INDICATING THE TOTAL HEATING VALUE OF THE LANDFILL GAS BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE AND THE LATEST BTU CONTENT READING.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4), RULE 1401]
8. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
9. THE OPERATOR SHALL DIRECT ALL LANDFILL GAS WHICH IS NOT BURNED IN THIS EQUIPMENT TO ANOTHER COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, AND CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND WHICH HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a)(1)-BACT]
10. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLE SHOULD HAVE KNOW OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, AND 430]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN AN ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, IN THE EXHAUST STACK AND PROVIDE SAFE ACCESS TO THESE SAMPLING PORTS IN ACCORDANCE WITH RULE 217 AND SCAQMD APPROVAL.
[RULE 217]
12. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR NOX, AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(B)(2)-OFFSET, 3004(a)(4)]
13. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR CO, AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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 BREA PARENT 2007, LLC**

14. WITHIN 180 DAYS AFTER INITIAL START-UP AND ANNUALLY (WITHIN 45 DAYS OF THE ANNIVERSARY OF THE INITIAL TEST) THEREAFTER, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF THE TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A TEST OF THE INLET AND OUTLET OF THE LANDFILL GAS TURBINE EXHAUST AIR POLLUTION CONTROL SYSTEM (APCS) AND THE INLET AND OUTLET TO THE LANDFILL GAS TREATMENT SYSTEM (LGTS) FOR:

- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS (INLET AND OUTLET OF THE APCS).
- B. CARBON MONOXIDE (INLET AND OUTLET OF THE APCS).
- C. CARBON DIOXIDE (OUTLET OF THE APCS).
- D. OXIDES OF NITROGEN (INLET AND OUTLET OF THE APCS).
- E. TOTAL PARTICULATES (OUTLET OF THE APCS).
- F. AMMONIA (OUTLET OF THE APCS).
- G. TOTAL REDUCED SULFUR, AS H₂S (OUTLET OF THE LGTS).
- H. FORMALDEHYDE, AND ALDEHYDES (OUTLET OF THE APCS).
- I. TOXIC AIR CONTAMINANTS (INLET AND OUTLET OF THE APCS) INCLUDING BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1, 1 DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1,-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
- J. OXYGEN
- K. MOISTURE CONTENT
- L. TEMPERATURE.
- M. EXHAUST FLOW RATE.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR) POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O₂ (CO, NOX, AND TNMHC). THE REPORT SHALL ALSO PROVIDE THE DEMONSTRATED EFFICIENCY OF THE GAS TURBINE, AT FULL LOAD, IN BTU/KW-HR, CORRECTED TO THE HIGHER HEATING VALUE (HHV) OF THE FUEL, THE AQUEOUS AMMONIA INJECTION RATE, NOX CONTROL EFFICIENCY, AND CO CONTROL EFFICIENCY OF THE APCS.

[RULE 1303(a)(1) BACT, RULE 1303(b)(1)-MODELING, RULE 1303(b)(2)-OFFSET, RULE 1401, RULE 3004(A)(4)]

15. THE EMISSIONS FROM THE GAS TURBINE EXHAUST STACK SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/DAY
NOX (AS NO ₂)	170
PM ₁₀	36
TGNMOC (AS CH ₄)	12
SOX (AS SO ₂)	33

[RULE 1303(b)(2)-OFFSET]

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

16. EMISSIONS OF CARBON MONOXIDE SHALL NOT EXCEED 130 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1701(b)(1)-BACT]
17. EMISSIONS OF NO_x SHALL NOT EXCEED 25 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1303(a)(1)-BACT, 1303 (b)(1)-MODELING, 1303(b)(2)-OFFSET]
18. THIS EQUIPMENT SHALL BE FIRED ONLY WITH LANDFILL GAS, EXCEPT WHEN PROPANE IS USED TO IGNITE THE TURBINE DURING A START-UP.
[RULE 204]
19. IF THE SOURCE TEST INDICATES THAT ADDITIONAL TOXIC AIR CONTAMINANT (TAC) COMPOUNDS ARE EMITTED FROM THIS EQUIPMENT WHICH WERE NOT COVERED IN THE APPROVED TIER IV MODEL, OR THAT THE TAC EMISSION RATES ARE SIGNIFICANTLY DIFFERENT FROM THE PREVIOUSLY EVALUATED TAC EMISSIONS, THE APPLICANT SHALL RESUBMIT A TIER IV MODEL AND CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA), AND CHRONIC HAZARD INDEX (HIC) BASED ON THE SOURCE TEST RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0) TO DETERMINE COMPLIANCE WITH RULE 1401. THE RESULTS SHALL BE SUBMITTED TO AQMD WITHIN 90 DAYS AFTER THE INITIAL TESTING IS COMPLETED.
[RULE 1401]
20. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

EMISSIONS AND REQUIREMENTS

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - CO: 2000 PPMV, DRY, 15 MIN. AVG. RULE 407
 - CO: 130 PPMV, DRY, 60 MIN. AVG. RULE 1701(b)(1) BACT
 - NOX: 25 PPMV, @15% O₂, DRY, 60 MIN. AVG., RULE 1303 BACT.
 - PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
 - NMOC: 20PPMV, AS HEXANE@ 3%O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1.
40 CFR 60 SUBPART WWW, 40 CFR 63 SUBPART AAAA.
 - SOX: 0.2% RULE 53
 - SOX: 0.9 lb/MWh, OR 0.06 lb/MMBtu, 40 CFR 60 SUBPART KKKK
 - NOX: 96 PPM @ 15% O₂, OR 5.5 lb/MWh, 40 CFR 60 SUBPART KKKK

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

PERMIT TO CONSTRUCT

A/N 474003

Granted: 01-22-2010

Equipment Description:

RESOURCE RECOVERY/LANDFILL GAS TO ENERGY SYSTEM NO.3 CONSISTING OF:

1. GAS TURBINE, NO.3, SOLAR, MODEL TAURUS 60 7900 SERIES, LANDFILL GAS FIRED, DRIVING A 5.6 MW GENERATOR
2. HEAT RECOVERY STEAM GENERATOR.
3. STEAM TURBINE/GENERATOR [COMMON TO SYSTEMS NO.1, 2, AND 4]

Conditions:

1. CONSTRUCTION AND 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. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE EXHAUST GAS IS VENTED TO AIR POLLUTION CONTROL SYSTEM NO.3 WHICH IS IN FULL OPERATION AND WHICH HAS A VALID PERMIT FROM THE AQMD.
[RULE 1303(a)(1)-BACT, RULE 1701(b)(1)-BACT, RULE 1401]
4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO THE SCAQMD FOR PRE-INSTALLATION APPROVAL, THE GAS TURBINE FINAL DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AT LEAST 60 DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT
[RULE 204]
5. A CONTINUOUS FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]
6. THE OPERATOR SHALL MEASURE AND RECORD THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO EACH GAS TURBINE AT LEAST ONCE PER WEEK USING AN INSTRUMENT APPROVED BY THE SCAQMD.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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7. THE TOTAL HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINE SHALL NOT EXCEED 72 MMBTU/HR, BASED ON A 24 HOURS AVERAGE. THE OPERATOR SHALL DETERMINE THE TOTAL HEAT INPUT OF THE LANDFILL GAS AT LEAST ONCE EVERY EIGHT HOURS OF OPERATION, AND MAINTAIN A LOG INDICATING THE TOTAL HEATING VALUE OF THE LANDFILL GAS BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE AND THE LATEST BTU CONTENT READING.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4), RULE 1401]
8. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
9. THE OPERATOR SHALL DIRECT ALL LANDFILL GAS WHICH IS NOT BURNED IN THIS EQUIPMENT TO ANOTHER COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, AND CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND WHICH HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a)(1)-BACT]
10. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLE SHOULD HAVE KNOW OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, AND 430]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN AN ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, IN THE EXHAUST STACK AND PROVIDE SAFE ACCESS TO THESE SAMPLING PORTS IN ACCORDANCE WITH RULE 217 AND SCAQMD APPROVAL.
[RULE 217]
12. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR NOX, AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(B)(2)-OFFSET, 3004(a)(4)]
13. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR CO. AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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14. WITHIN 180 DAYS AFTER INITIAL START-UP AND ANNUALLY (WITHIN 45 DAYS OF THE ANNIVERSARY OF THE INITIAL TEST) THEREAFTER, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF THE TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A TEST OF THE INLET AND OUTLET OF THE LANDFILL GAS TURBINE EXHAUST AIR POLLUTION CONTROL SYSTEM (APCS) AND THE INLET AND OUTLET TO THE LANDFILL GAS TREATMENT SYSTEM (LGTS) FOR:

- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS (INLET AND OUTLET OF THE APCS).
- B. CARBON MONOXIDE (INLET AND OUTLET OF THE APCS).
- C. CARBON DIOXIDE (OUTLET OF THE APCS).
- D. OXIDES OF NITROGEN (INLET AND OUTLET OF THE APCS).
- E. TOTAL PARTICULATES (OUTLET OF THE APCS).
- F. AMMONIA (OUTLET OF THE APCS).
- G. TOTAL REDUCED SULFUR, AS H₂S (OUTLET OF THE LGTS).
- H. FORMALDEHYDE, AND ALDEHYDES (OUTLET OF THE APCS).
- I. TOXIC AIR CONTAMINANTS (INLET AND OUTLET OF THE APCS) INCLUDING BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1, 1 DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1,-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
- J. OXYGEN
- K. MOISTURE CONTENT
- L. TEMPERATURE.
- M. EXHAUST FLOW RATE.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR) POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O₂ (CO, NOX, AND TNMHC). THE REPORT SHALL ALSO PROVIDE THE DEMONSTRATED EFFICIENCY OF THE GAS TURBINE, AT FULL LOAD, IN BTU/KW-HR, CORRECTED TO THE HIGHER HEATING VALUE (HHV) OF THE FUEL, THE AQUEOUS AMMONIA INJECTION RATE, NOX CONTROL EFFICIENCY, AND CO CONTROL EFFICIENCY OF THE APCS.
 [RULE 1303(a)(1) BACT), RULE 1303(b)(1)-MODELING, RULE 1303(b)(2)-OFFSET, RULE 1401, RULE 3004(A)(4)]

15. THE EMISSIONS FROM THE GAS TURBINE EXHAUST STACK SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/DAY
NOX (AS NO ₂)	170
PM ₁₀	36
TGNMOC (AS CH ₄)	12
SOX (AS SO ₂)	33

[RULE 1303(b)(2)-OFFSET]

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16. EMISSIONS OF CARBON MONOXIDE SHALL NOT EXCEED 130 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1701(b)(1)-BACT]
17. EMISSIONS OF NO_x SHALL NOT EXCEED 25 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1303(a)(1)-BACT, 1303 (b)(1)-MODELING, 1303(b)(2)-OFFSET]
18. THIS EQUIPMENT SHALL BE FIRED ONLY WITH LANDFILL GAS, EXCEPT WHEN PROPANE IS USED TO IGNITE THE TURBINE DURING A START-UP.
[RULE 204]
19. IF THE SOURCE TEST INDICATES THAT ADDITIONAL TOXIC AIR CONTAMINANT (TAC) COMPOUNDS ARE EMITTED FROM THIS EQUIPMENT WHICH WERE NOT COVERED IN THE APPROVED TIER IV MODEL, OR THAT THE TAC EMISSION RATES ARE SIGNIFICANTLY DIFFERENT FROM THE PREVIOUSLY EVALUATED TAC EMISSIONS, THE APPLICANT SHALL RESUBMIT A TIER IV MODEL AND CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA), AND CHRONIC HAZARD INDEX (HIC) BASED ON THE SOURCE TEST RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0) TO DETERMINE COMPLIANCE WITH RULE 1401. THE RESULTS SHALL BE SUBMITTED TO AQMD WITHIN 90 DAYS AFTER THE INITIAL TESTING IS COMPLETED.
[RULE 1401]
20. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

EMISSIONS AND REQUIREMENTS

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - CO: 2000 PPMV, DRY, 15 MIN. AVG. RULE 407
 - CO: 130 PPMV, DRY, 60 MIN. AVG. RULE 1701(b)(1) BACT
 - NO_x: 25 PPMV, @15% O₂, DRY, 60 MIN. AVG., RULE 1303 BACT.
 - PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
 - NMOC: 20PPMV, AS HEXANE@ 3%O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1, 40 CFR 60 SUBPART WWW, 40 CFR 63 SUBPART AAAA.
 - SO_x: 0.2% RULE 53
 - SO_x: 0.9 lb/MWh. OR 0.06 lb/MMBtu, 40 CFR 60 SUBPART KKKK
 - NO_x: 96 PPM @ 15% O₂, OR 5.5 lb/MWh, 40 CFR 60 SUBPART KKKK

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PERMIT TO CONSTRUCT

A/N 474004

Granted: 01-22-2010

Equipment Description:

RESOURCE RECOVERY/LANDFILL GAS TO ENERGY SYSTEM NO.4 CONSISTING OF:

1. GAS TURBINE, NO.4, SOLAR, MODEL TAURUS 60 7900 SERIES, LANDFILL GAS FIRED, DRIVING A 5.6 MW GENERATOR
2. HEAT RECOVERY STEAM GENERATOR.
3. STEAM TURBINE/GENERATOR [COMMON TO SYSTEMS NO.1, 2, AND 3]

Conditions:

1. CONSTRUCTION AND 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. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE EXHAUST GAS IS VENTED TO AIR POLLUTION CONTROL SYSTEM NO.4 WHICH IS IN FULL OPERATION AND WHICH HAS A VALID PERMIT FROM THE AQMD.
[RULE 1303(a)(1)-BACT, RULE 1701(b)(1)-BACT, RULE 1401]
4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO THE SCAQMD FOR PRE-INSTALLATION APPROVAL, THE GAS TURBINE FINAL DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AT LEAST 60 DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT
[RULE 204]
5. A CONTINUOUS FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]
6. THE OPERATOR SHALL MEASURE AND RECORD, THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO EACH GAS TURBINE AT LEAST ONCE PER WEEK USING AN INSTRUMENT APPROVED BY THE SCAQMD.
[RULE 1303(b)(1)-MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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7. THE TOTAL HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINE SHALL NOT EXCEED 72 MMBTU/HR, BASED ON A 24 HOURS AVERAGE. THE OPERATOR SHALL DETERMINE THE TOTAL HEAT INPUT OF THE LANDFILL GAS AT LEAST ONCE EVERY EIGHT HOURS OF OPERATION, AND MAINTAIN A LOG INDICATING THE TOTAL HEATING VALUE OF THE LANDFILL GAS BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE AND THE LATEST BTU CONTENT READING.
[RULE 1303(b)(1)-MODELING, 1303(b) (2)-OFFSET, 3004(a)(4), RULE 1401]
8. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
9. THE OPERATOR SHALL DIRECT ALL LANDFILL GAS WHICH IS NOT BURNED IN THIS EQUIPMENT TO ANOTHER COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, AND CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND WHICH HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a)(1)-BACT]
10. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLE SHOULD HAVE KNOW OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, AND 430]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN AN ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, IN THE EXHAUST STACK AND PROVIDE SAFE ACCESS TO THESE SAMPLING PORTS IN ACCORDANCE WITH RULE 217 AND SCAQMD APPROVAL.
[RULE 217]
12. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR NOX, AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(B)(2)-OFFSET, 3004(a)(4)]
13. THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), WHICH IS APPROVED BY THE EXECUTIVE OFFICE, TO MEASURE THE EXHAUST CONCENTRATION FOR CO, AND O2 ON A DRY BASIS
[RULE 218, 1303(b)(1) MODELING, 1303(b)(2)-OFFSET, 3004(a)(4)]

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14. WITHIN 180 DAYS AFTER INITIAL START-UP AND ANNUALLY (WITHIN 45 DAYS OF THE ANNIVERSARY OF THE INITIAL TEST) THEREAFTER, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF THE TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A TEST OF THE INLET AND OUTLET OF THE LANDFILL GAS TURBINE EXHAUST AIR POLLUTION CONTROL SYSTEM (APCS) AND THE INLET AND OUTLET TO THE LANDFILL GAS TREATMENT SYSTEM (LGTS) FOR:
- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS (INLET AND OUTLET OF THE APCS).
 - B. CARBON MONOXIDE (INLET AND OUTLET OF THE APCS).
 - C. CARBON DIOXIDE (OUTLET OF THE APCS).
 - D. OXIDES OF NITROGEN (INLET AND OUTLET OF THE APCS).
 - E. TOTAL PARTICULATES (OUTLET OF THE APCS).
 - F. AMMONIA (OUTLET OF THE APCS).
 - G. TOTAL REDUCED SULFUR, AS H₂S (OUTLET OF THE LGTS).
 - H. FORMALDEHYDE, AND ALDEHYDES (OUTLET OF THE APCS).
 - I. TOXIC AIR CONTAMINANTS (INLET AND OUTLET OF THE APCS) INCLUDING BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1,2-DICHLOROETHANE, 1, 1 DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1,1,1,-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
 - J. OXYGEN
 - K. MOISTURE CONTENT
 - L. TEMPERATURE.
 - M. EXHAUST FLOW RATE.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR) POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O₂ (CO, NOX, AND TNMHC). THE REPORT SHALL ALSO PROVIDE THE DEMONSTRATED EFFICIENCY OF THE GAS TURBINE, AT FULL LOAD, IN BTU/KW-HR, CORRECTED TO THE HIGHER HEATING VALUE (HHV) OF THE FUEL, THE AQUEOUS AMMONIA INJECTION RATE, NOX CONTROL EFFICIENCY, AND CO CONTROL EFFICIENCY OF THE APCS.

[RULE 1303(a)(1) BACT), RULE 1303(b)(1)-MODELING, RULE 1303(b)(2)-OFFSET, RULE 1401, RULE 3004(A)(4)]

15. THE EMISSIONS FROM THE GAS TURBINE EXHAUST STACK SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/DAY
NOX (AS NO ₂)	170
PM ₁₀	36
TGNMOC (AS CH ₄)	12
SOX (AS SO ₂)	33

[RULE 1303(b)(2)-OFFSET]

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16. EMISSIONS OF CARBON MONOXIDE SHALL NOT EXCEED 130 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1701(b)(1)-BACT]
17. EMISSIONS OF NO_x SHALL NOT EXCEED 25 PPMV, CALCULATED AT 15% OXYGEN, DRY BASIS, MEASURED AT THE STACK, EXCEPT DURING PERIOD OF STARTUP AND SHUTDOWN NOT TO EXCEED 60 MINUTES PER INCIDENT.
[RULE 1303(a)(1)-BACT, 1303 (b)(1)-MODELING, 1303(b)(2)-OFFSET]
18. THIS EQUIPMENT SHALL BE FIRED ONLY WITH LANDFILL GAS, EXCEPT WHEN PROPANE IS USED TO IGNITE THE TURBINE DURING A START-UP.
[RULE 204]
19. IF THE SOURCE TEST INDICATES THAT ADDITIONAL TOXIC AIR CONTAMINANT (TAC) COMPOUNDS ARE EMITTED FROM THIS EQUIPMENT WHICH WERE NOT COVERED IN THE APPROVED TIER IV MODEL, OR THAT THE TAC EMISSION RATES ARE SIGNIFICANTLY DIFFERENT FROM THE PREVIOUSLY EVALUATED TAC EMISSIONS, THE APPLICANT SHALL RESUBMIT A TIER IV MODEL AND CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA), AND CHRONIC HAZARD INDEX (HIC) BASED ON THE SOURCE TEST RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0) TO DETERMINE COMPLIANCE WITH RULE 1401. THE RESULTS SHALL BE SUBMITTED TO AQMD WITHIN 90 DAYS AFTER THE INITIAL TESTING IS COMPLETED.
[RULE 1401]
20. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

EMISSIONS AND REQUIREMENTS

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - CO: 2000 PPMV, DRY, 15 MIN. AVG. RULE 407
 - CO: 130 PPMV, DRY, 60 MIN. AVG. RULE 1701(b)(1) BACT
 - NOX: 25 PPMV, @15% O₂, DRY, 60 MIN. AVG., RULE 1303 BACT.
 - PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
 - NMOC: 20PPMV, AS HEXANE@ 3%O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1, 40 CFR 60 SUBPART WWW, 40 CFR 63 SUBPART AAAA.
 - SOX: 0.2% RULE 53
 - SOX: 0.9 lb/MWh, OR 0.06 lb/MMBtu, 40 CFR 60 SUBPART KKKK
 - NOX: 96 PPM @ 15% O₂, OR 5.5 lb/MWh, 40 CFR 60 SUBPART KKKK

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

PERMIT TO CONSTRUCT

A/N 474005
Granted: 01-22-2010

Equipment Description:

AIR POLLUTION CONTROL SYSTEM, NO. 1, CONSISTING OF:

1. OXIDATION CATALYST,
2. AMMONIA INJECTION GRID,
3. SELECTIVE CATALYTIC REDUCTION (SCR) UNIT, PEERLESS, WITH A HONEYCOMB CERAMIC VANADIUM/TITANIUM TYPE CATALYST AND AMMONIA INJECTION,

Conditions:

1. CONSTRUCTION AND 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. PRIOR TO INSTALLATION, THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO AND OBTAIN APPROVAL FROM THE SCAQMD, THE AIR POLLUTION CONTROL SYSTEM DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE , MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY), AND OTHER VENDOR DATA. ADDITIONAL CONDITIONS MAY BE IMPOSED AS PART OF THE APPROVAL.
[RULE 204]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS TEMPERATURE MEASUREMENT AND RECORDING DEVICE WITH AN ACCURACY OF PLUS OR MINUS 5 DEGREES FAHRENHEIT AT THE INLET OF SCR CATALYST BED.
[RULE 1303(a)(1)-BACT]
5. EXCEPT DURING STARTUP AND SHUTDOWN, THE OPERATOR SHALL MAINTAIN THE TEMPERATURE AT THE INLET TO THE SCR CATALYST BED BETWEEN 450 AND 800 DEG F.
[RULE 1303(a)(1)-BACT]

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6. ONCE EACH YEAR, THE OPERATOR SHALL SAMPLE AND ANALYZE THE CO OXIDATION AND NO_x REDUCTION CATALYSTS TO DETERMINE THE ACTIVITY OF EACH CATALYST. THE RESULTS SHALL BE SUBMITTED TO THE AQMD (ATTENTION PERMITTING ENGINEER) WITHIN 60 DAYS AFTER EACH SAMPLING. THIS REQUIREMENT MAY BE TERMINATED OR MODIFIED AT THE TIME WHEN THE FINAL PERMIT TO OPERATE IS ISSUED OR EARLIER PROVIDED THAT A WRITTEN AUTHORIZATION IS ISSUED BY THE AQMD.
[RULE 1303(a)(1)-BACT]
7. THE OPERATOR SHALL CONTINUOUSLY ANALYZE THE AMMONIA INJECTION RATE, AND THE SCR INLET AND OUTLET NO_x EMISSION RATE TO ESTIMATE THE AMMONIA CONCENTRATION IN THE SCR OUTLET, BASED ON A ONE HOUR AVERAGE.
[RULE 1303(a)(1)-BACT]
8. THE AMMONIA INJECTION SYSTEM SHALL BE EQUIPPED WITH A FULLY MODULATED AUTOMATED CONTROL SYSTEM TUNED TO MINIMIZE AMMONIA SLIP.
[RULE 1303(a)(1)-BACT]
9. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
10. THE CONCENTRATION OF AMMONIA EMISSIONS (AMMONIA SLIP) AT THE EXHAUST OUTLET SHALL NOT EXCEED 5 PPM @ 15%O₂, 60 MINUTE AVERAGING TIME.
[RULE 1303(a) (1)-BACT]
11. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:

PRESSURE DROP ACROSS THE CATALYST BED SHALL BE MEASURED (INCHES OF WATER COLUMN) AND MAINTAINED AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION. READINGS SHALL BE TAKEN ON A MONTHLY BASIS AND PRESSURE TAPS ARE CHECKED MONTHLY FOR PLUGGING.

THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 500 DEGREES FAHRENHEIT BUT LOWER THAN 1200 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 2% BY MONITORING O₂ SENSOR VOLTAGE OUTPUT OR AS PER O₂ MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 500 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

GREATER THAN 1200 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 500 AND 1200 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

PERMIT TO CONSTRUCT

**A/N 474006
Granted: 01-22-2010**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM, NO. 2, CONSISTING OF:

1. OXIDATION CATALYST,
2. AMMONIA INJECTION GRID,
3. SELECTIVE CATALYTIC REDUCTION (SCR) UNIT, PEERLESS, WITH A HONEYCOMB CERAMIC VANADIUM/TITANIUM TYPE CATALYST AND AMMONIA INJECTION,

Conditions:

1. CONSTRUCTION AND 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. PRIOR TO INSTALLATION, THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO AND OBTAIN APPROVAL FROM THE SCAQMD, THE AIR POLLUTION CONTROL SYSTEM DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY), AND OTHER VENDOR DATA. ADDITIONAL CONDITIONS MAY BE IMPOSED AS PART OF THE APPROVAL.
[RULE 204]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS TEMPERATURE MEASUREMENT AND RECORDING DEVICE WITH AN ACCURACY OF PLUS OR MINUS 5 DEGREES FAHRENHEIT AT THE INLET OF SCR CATALYST BED.
[RULE 1303(a)(1)-BACT]
5. EXCEPT DURING STARTUP AND SHUTDOWN, THE OPERATOR SHALL MAINTAIN THE TEMPERATURE AT THE INLET TO THE SCR CATALYST BED BETWEEN 450 AND 800 DEG F.
[RULE 1303(a)(1)-BACT]

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

6. ONCE EACH YEAR, THE OPERATOR SHALL SAMPLE AND ANALYZE THE CO OXIDATION AND NOX REDUCTION CATALYSTS TO DETERMINE THE ACTIVITY OF EACH CATALYST. THE RESULTS SHALL BE SUBMITTED TO THE AQMD (ATTENTION PERMITTING ENGINEER) WITHIN 60 DAYS AFTER EACH SAMPLING. THIS REQUIREMENT MAY BE TERMINATED OR MODIFIED AT THE TIME WHEN THE FINAL PERMIT TO OPERATE IS ISSUED OR EARLIER PROVIDED THAT A WRITTEN AUTHORIZATION IS ISSUED BY THE AQMD.
[RULE 1303(a)(1)-BACT]
7. THE OPERATOR SHALL CONTINUOUSLY ANALYZE THE AMMONIA INJECTION RATE, AND THE SCR INLET AND OUTLET NOX EMISSION RATE TO ESTIMATE THE AMMONIA CONCENTRATION IN THE SCR OUTLET, BASED ON A ONE HOUR AVERAGE.
[RULE 1303(a)(1)-BACT]
8. THE AMMONIA INJECTION SYSTEM SHALL BE EQUIPPED WITH A FULLY MODULATED AUTOMATED CONTROL SYSTEM TUNED TO MINIMIZE AMMONIA SLIP.
[RULE 1303(a)(1)-BACT]
9. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
10. THE CONCENTRATION OF AMMONIA EMISSIONS (AMMONIA SLIP) AT THE EXHAUST OUTLET SHALL NOT EXCEED 5 PPM @ 15%O₂, 60 MINUTE AVERAGING TIME.
[RULE 1303(a)(1)-BACT]
11. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:
PRESSURE DROP ACROSS THE CATALYST BED SHALL BE MEASURED (INCHES OF WATER COLUMN) AND MAINTAINED AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION. READINGS SHALL BE TAKEN ON A MONTHLY BASIS AND PRESSURE TAPS ARE CHECKED MONTHLY FOR PLUGGING.
THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 500 DEGREES FAHRENHEIT BUT LOWER THAN 1200 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.
FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 2% BY MONITORING O₂ SENSOR VOLTAGE OUTPUT OR AS PER MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN ± 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.
FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 500 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

GREATER THAN 1200 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 500 AND 1200 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS. [RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

PERMIT TO CONSTRUCT

A/N 474007

Granted: 01-22-2010

Equipment Description:

AIR POLLUTION CONTROL SYSTEM, NO. 3, CONSISTING OF:

1. OXIDATION CATALYST,
2. AMMONIA INJECTION GRID,
3. SELECTIVE CATALYTIC REDUCTION (SCR) UNIT, PEERLESS, WITH A HONEYCOMB CERAMIC VANADIUM/TITANIUM TYPE CATALYST AND AMMONIA INJECTION,

Conditions:

1. CONSTRUCTION AND 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. PRIOR TO INSTALLATION, THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO AND OBTAIN APPROVAL FROM THE SCAQMD, THE AIR POLLUTION CONTROL SYSTEM DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY), AND OTHER VENDOR DATA. ADDITIONAL CONDITIONS MAY BE IMPOSED AS PART OF THE APPROVAL.
[RULE 204]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS TEMPERATURE MEASUREMENT AND RECORDING DEVICE WITH AN ACCURACY OF PLUS OR MINUS 5 DEGREES FAHRENHEIT AT THE INLET OF SCR CATALYST BED.
[RULE 1303(a)(1)-BACT]
5. EXCEPT DURING STARTUP AND SHUTDOWN, THE OPERATOR SHALL MAINTAIN THE TEMPERATURE AT THE INLET TO THE SCR CATALYST BED BETWEEN 450 AND 800 DEG F.
[RULE 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

6. ONCE EACH YEAR, THE OPERATOR SHALL SAMPLE AND ANALYZE THE CO OXIDATION AND NO_x REDUCTION CATALYSTS TO DETERMINE THE ACTIVITY OF EACH CATALYST. THE RESULTS SHALL BE SUBMITTED TO THE AQMD (ATTENTION PERMITTING ENGINEER) WITHIN 60 DAYS AFTER EACH SAMPLING. THIS REQUIREMENT MAY BE TERMINATED OR MODIFIED AT THE TIME WHEN THE FINAL PERMIT TO OPERATE IS ISSUED OR EARLIER PROVIDED THAT A WRITTEN AUTHORIZATION IS ISSUED BY THE AQMD.
[RULE 1303(a)(1)-BACT]
7. THE OPERATOR SHALL CONTINUOUSLY ANALYZE THE AMMONIA INJECTION RATE, AND THE SCR INLET AND OUTLET NO_x EMISSION RATE TO ESTIMATE THE AMMONIA CONCENTRATION IN THE SCR OUTLET, BASED ON A ONE HOUR AVERAGE.
[RULE 1303(a)(1)-BACT]
8. THE AMMONIA INJECTION SYSTEM SHALL BE EQUIPPED WITH A FULLY MODULATED AUTOMATED CONTROL SYSTEM TUNED TO MINIMIZE AMMONIA SLIP.
[RULE 1303(a)(1)-BACT]
9. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
10. THE CONCENTRATION OF AMMONIA EMISSIONS (AMMONIA SLIP) AT THE EXHAUST OUTLET SHALL NOT EXCEED 5 PPM @ 15%O₂, 60 MINUTE AVERAGING TIME.
[RULE 1303(a)(1)-BACT]
11. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:

PRESSURE DROP ACROSS THE CATALYST BED SHALL BE MEASURED (INCHES OF WATER COLUMN) AND MAINTAINED AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION. READINGS SHALL BE TAKEN ON A MONTHLY BASIS AND PRESSURE TAPS ARE CHECKED MONTHLY FOR PLUGGING.

THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 500 DEGREES FAHRENHEIT BUT LOWER THAN 1200 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 2% BY MONITORING O₂ SENSOR VOLTAGE OUTPUT OR AS PERO₂ MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN ± 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 500 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

GREATER THAN 1200 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 500 AND 1200 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

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

PERMIT TO CONSTRUCT

**A/N 474008
Granted: 01-22-2010**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM, NO. 4, CONSISTING OF:

1. OXIDATION CATALYST,
2. AMMONIA INJECTION GRID,
3. SELECTIVE CATALYTIC REDUCTION (SCR) UNIT, PEERLESS, WITH A HONEYCOMB CERAMIC VANADIUM/TITANIUM TYPE CATALYST AND AMMONIA INJECTION,

Conditions:

1. CONSTRUCTION AND 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. PRIOR TO INSTALLATION, THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO AND OBTAIN APPROVAL FROM THE SCAQMD, THE AIR POLLUTION CONTROL SYSTEM DESIGN DRAWINGS, P&I DIAGRAMS, CONTROL DIAGRAMS, EQUIPMENT SPECIFICATIONS (MAKE , MODEL DIMENSIONS, SIZE AND MAXIMUM CAPACITY), AND OTHER VENDOR DATA. ADDITIONAL CONDITIONS MAY BE IMPOSED AS PART OF THE APPROVAL.
[RULE 204]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS TEMPERATURE MEASUREMENT AND RECORDING DEVICE WITH AN ACCURACY OF PLUS OR MINUS 5 DEGREES FAHRENHEIT AT THE INLET OF SCR CATALYST BED.
[RULE 1303(a)(1)-BACT]
5. EXCEPT DURING STARTUP AND SHUTDOWN, THE OPERATOR SHALL MAINTAIN THE TEMPERATURE AT THE INLET TO THE SCR CATALYST BED BETWEEN 450 AND 800 DEG F.
[RULE 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

6. ONCE EACH YEAR, THE OPERATOR SHALL SAMPLE AND ANALYZE THE CO OXIDATION AND NO_x REDUCTION CATALYSTS TO DETERMINE THE ACTIVITY OF EACH CATALYST. THE RESULTS SHALL BE SUBMITTED TO THE AQMD (ATTENTION PERMITTING ENGINEER) WITHIN 60 DAYS AFTER EACH SAMPLING. THIS REQUIREMENT MAY BE TERMINATED OR MODIFIED AT THE TIME WHEN THE FINAL PERMIT TO OPERATE IS ISSUED OR EARLIER PROVIDED THAT A WRITTEN AUTHORIZATION IS ISSUED BY THE AQMD.
[RULE 1303(a)(1)-BACT]
7. THE OPERATOR SHALL CONTINUOUSLY ANALYZE THE AMMONIA INJECTION RATE, AND THE SCR INLET AND OUTLET NO_x EMISSION RATE TO ESTIMATE THE AMMONIA CONCENTRATION IN THE SCR OUTLET, BASED ON A ONE HOUR AVERAGE.
[RULE 1303(a)(1)-BACT]
8. THE AMMONIA INJECTION SYSTEM SHALL BE EQUIPPED WITH A FULLY MODULATED AUTOMATED CONTROL SYSTEM TUNED TO MINIMIZE AMMONIA SLIP.
[RULE 1303(a)(1)-BACT]
9. THE OPERATOR SHALL SYNCHRONIZE ALL RECORDING DEVICES WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
10. THE CONCENTRATION OF AMMONIA EMISSIONS (AMMONIA SLIP) AT THE EXHAUST OUTLET SHALL NOT EXCEED 5 PPM @ 15%O₂, 60 MINUTE AVERAGING TIME.
[RULE 1303(a)(1)-BACT]
11. THE OPERATOR SHALL OPERATE AND MAINTAIN THE CATALYTIC OXIDIZER ACCORDING TO THE FOLLOWING REQUIREMENTS:

PRESSURE DROP ACROSS THE CATALYST BED SHALL BE MEASURED (INCHES OF WATER COLUMN) AND MAINTAINED AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION. READINGS SHALL BE TAKEN ON A MONTHLY BASIS AND PRESSURE TAPS ARE CHECKED MONTHLY FOR PLUGGING.

THE INLET AND EXHAUST TEMPERATURE FOR THE CATALYTIC OXIDIZER SHALL BE MAINTAINED AT A MINIMUM OF 500 DEGREES FAHRENHEIT BUT LOWER THAN 1200 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

FOR CATALYTIC OXIDIZER, % OXYGEN IN INLET STREAM SHALL BE MAINTAINED AT GREATER THAN 2% BY MONITORING O₂ SENSOR VOLTAGE OUTPUT OR AS PERO₂ MEASURING INSTRUMENT'S MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

CONTINUOUS INLET AND EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN ± 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN INLET TEMPERATURE OF LESS THAN 500 DEGREES FAHRENHEIT AND EXHAUST TEMPERATURE

FACILITY PERMIT TO OPERATE BREA PARENT 2007, LLC

GREATER THAN 1200 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE 4-HOUR ROLLING AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 500 AND 1200 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

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

PERMIT TO CONSTRUCT

**A/N 487106
Granted: 01-22-2010**

Equipment Description:

STORAGE TANK, AQUEOUS AMMONIA, 12'-6" DIA. X 15'-0" H., 12,000 GALLONS CAPACITY.

Conditions:

1. CONSTRUCTION AND 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. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE MAXIMUM CONCENTRATION OF AMMONIA STORED IN THE TANK SHALL NOT EXCEED 19 PERCENT BY WEIGHT
[RULE 204]
5. THIS STORAGE TANK SHALL NOT BE FILLED UNLESS IT IS VENTED TO A VAPOR BALANCE SYSTEM WHICH TRANSFERS AMMONIA VAPORS DISPLACED FROM THE STORAGE TANK, TO THE DELIVERY TANK TRUCK.
[RULE 1303(a)(1)-BACT, RULE 1401]

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
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

SECTION J: AIR TOXICS [40CFR 63 Subpart ZZZZ, #1 03-09-2011]

**NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS:
 STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES**

The owner/operator of stationary Reciprocating Internal Combustion Engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions shall comply with the applicable requirements of 40 CFR 63 Subpart ZZZZ including but not limited to the following:

1. The owner/operator shall comply with the applicable requirements as specified in 63.6603 including but not limited to the following:

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
11. Non-emergency, non-black start landfill or digester gas-fired stationary RICE.	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹ b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	

¹Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

2. The owner/operator shall comply with the applicable general requirements as specified in 63.6605.
3. The owner/operator shall comply with the applicable monitoring, installation, collection, operation, and maintenance requirements specified in 63.6625.
4. The owner/operator shall demonstrate continuous compliance with the applicable emission limitations and operating limitations specified in 63.6640 including but not limited to the following:
 - (a) You must demonstrate continuous compliance with each emission limitation and operating limitation according to methods specified in Table 6 to this subpart.

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION J: AIR TOXICS [40CFR 63 Subpart ZZZZ, #1 03-09-2011]

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
existing non-emergency landfill or digester gas stationary SI 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 your own 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.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650.

5. The owner/operator shall comply with the applicable record keeping requirements specified in 63.6655 and 63.6660.

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are 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 the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
- (B) The date(s) analyses were performed;
- (C) The company or entity that performed the analyses;
- (D) The analytical techniques or methods used;
- (E) The results of such analyses; and
- (F) The operating conditions as existing at the time of sampling or measurement.
[3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:

- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
 - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

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- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 109	5-2-2003	Federally enforceable
RULE 1110.2	7-9-2010	Non federally enforceable
RULE 1113	6-3-2011	Non federally enforceable
RULE 1113	7-13-2007	Federally enforceable
RULE 1150.1	4-1-2011	Non federally enforceable
RULE 1171	2-1-2008	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1401	9-10-2010	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	6-1-2012	Non federally enforceable

FACILITY PERMIT TO OPERATE BRE A PARENT 2007,LLC

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 306	6-1-2012	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 403	4-2-2004	Federally enforceable
RULE 403	6-3-2005	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 60 Subpart WWW	10-17-2000	Federally enforceable
40CFR 63 Subpart AAAA	4-20-2006	Federally enforceable
40CFR 63SubpartZZZZ_01	3-9-2011	Federally enforceable

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

**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219**

NONE

FACILITY PERMIT TO OPERATE BREA PARENT 2007.LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:
 - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
 - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

TABLE OF STANDARDS 1 VOC LIMITS

**Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges ³		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			

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APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350		
Rust Preventative Coatings	400	100		
Stone Consolidant		450		
Sacrificial Anti-Graffiti Coatings		100	50	
Shellac				
Clear		730		
Pigmented		550		
Specialty Primers	350	100		
Stains		100		

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APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

TABLE OF STANDARDS 1 (cont.) VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

TABLE OF STANDARDS 2 VOC LIMITS FOR COLORANTS

Grams of VOC Per Liter of Colorant Less Water and Less Exempt Compounds

COLORANT	Limit ⁴
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.

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APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

FACILITY PERMIT TO OPERATE BREA PARENT 2007.LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007] TABLE OF STANDARDS VOC LIMITS

**Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		

FACILITY PERMIT TO OPERATE BREA PARENT 2007,LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Nonflat High Gloss	250		150				50	
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing Concrete/Masonry Sealers	400					100		
Wood Preservatives								
Below-Ground	350							
Other	350							

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-13-2007]**

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE BRE A PARENT 2007.LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		

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APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals			
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)		
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	100 (0.83)		
(B) Packaging	25 (0.21)		
(iv) Lithographic (Offset) or Letter Press Printing			
(A) Roller Wash, Blanket Wash, & On-Press Components			
(I) Newsprint	100 (0.83)		

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 02-01-2008]**

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)		
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

FACILITY PERMIT TO OPERATE BREA PARENT 2007.LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	

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APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	

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APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

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APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ² Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445

FACILITY PERMIT TO OPERATE BRE A PARENT 2007.LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148

**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100