



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

February 6, 2014

Mr. Gerardo Rios
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Dear Mr. Rios:

Subject: Baxter Healthcare Corp, Hyland Division (ID 069081) – Title V Permit
Revision

Baxter Healthcare Corp, Hyland Division (ID 069081) has proposed to revise their Title V permit. The Title V revision application number is 552407 and it includes change of conditions limiting fuel and operating hours for two boilers and several emergency engines. The revision also includes installation of a new boiler.

Facility derives proteins from human blood plasma as part of its pharmaceutical manufacturing process. (SIC 2836). Title V facility is located at 4501 Colorado Blvd, Los Angeles, CA 90039. The proposed permit revision is considered a “de minimis significant permit revision” to the facility’s Title V permit. Attached for your review are the evaluation and the proposed draft permit for the revision. With your expected receipt of the proposed draft Title V permit revision today, we will note that the EPA 45-day review period begins on February 6, 2014.

If you have any questions or need additional information regarding the proposed permit revision, please call Hassan Namaki at (909) 396-2699.

Sincerely,

A handwritten signature in black ink that reads "Mohan Balagopalan".

Mohan Balagopalan
Senior Manager
Chemical, Mechanical, and Ports Permitting

MB:DG:HN
Attachment



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE DIVISION

PERMIT APPLICATION EVALUATION AND CALCULATIONS

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**TITLE PERMIT REVISION
EVALUATION FOR PERMIT TO OPERATE**

APPLICANT'S NAME: BAXTER HEALTHCARE CORP, HYLAND DIVISION

CONTACT PERSON: Facility: Jody Bancroft (818) 265-6847
Consultant: Erin Sheehy (310) 664-1396

MAILING ADDRESS: 4501 COLORADO BLVD
LOS ANGELES, CA 90039

EQUIPMENT ADDRESS: 4501 COLORADO BLVD
LOS ANGELES, CA 90039

APPLICATION: 552407, 552408, 555961, 555962, 555963, 555964,
555965, 555966, 555967

FACILITY ID: 069081 RECLAIM: (N) TITLE V: (Y)

Applications:

APPLICATION	PREVIOUS APPL/PERMIT	EQUIPMENT DESCRIPTION	APPLICATION TYPE
552407	N/A	N/A	TV revision
552408	N/A	Boiler (37.656 mmbtu/hr)	New Installation
555961	397951 / F52803	Boiler (19.95 mmbtu/hr)	Change of Condition
555962	429559 / F69132	Boiler (19.9 5mmbtu/hr)	Change of Condition
555963	413877 / F60920	Emergency ICE-Generator (2,847 BHP), Diesel	Change of Condition
555964	392000 / F45904	Emergency ICE-Generator (216 BHP), Diesel	Change of Condition
555965	515309 / G10916	Emergency ICE-Generator (399 BHP), Diesel	Change of Condition
555966	538398 / G18829	Emergency ICE-Generator (3,622 BHP), Diesel	Change of Condition
555967	522516 / G18835	Emergency Fire pump (220 BHP), Diesel	Change of Condition
555968	118961 / R-M38063	Emergency ICE-Generator (636 BHP), Diesel	Change of Condition

BACKGROUND AND FACILITY INFORMATION:

The applications above were submitted for installation of a new boiler and change of condition applications to reduce and cap NOX emissions from the existing combustion equipment. Current NSR shows a NOX PTE of 5.58 tons/year for facility. However facility states that the actual NOX emission from their operation is less than 2 tons per year. By capping the NOX emissions, facility

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will be able to install additional equipment without triggering external offset requirement. The inclusion of Baxter in Title V was due to ROG emissions being greater than 10 per year. Most of the ROG for facility is generated by non-permitted sources.

Baxter HealthCare, ID 069081, is a non-RECLAIM, Title V facility located at 4501 Colorado Blvd, in Los Angeles. The facility is surrounded by light manufacturing facilities with no school or residential within 1000 feet from the facility. The facility is operating blood fractionation systems, alcohol storage tanks, spent alcohol distillation system, boilers, emergency internal combustion engines, and refrigeration equipment.

Facility derives proteins from human blood plasma as part of its pharmaceutical manufacturing process. The protein, or fractions, are removed from plasma during a fractionation process and used elsewhere in the plant or at other manufacturing facilities as basic materials in the development of various biotech products. The manufacturing process uses process tanks, filter presses, and centrifuges to extract medical grade bio-pharmaceutical proteins from human blood plasma. Alcohol and other pH altering chemicals are injected into the plasma solution, thereby causing select fractions to precipitate out of solution. In turn, the fractions are sequentially removed from the plasma by a series of steps involving either filtration or centrifugation.

COMPLIANCE HISTORY:

A check of facility compliance record showed two Notices to Comply (NC) for the facility in past three years. Both notices included submittal of application for equipment, one being application for 1472 compliance plan. Facility has complied with both NCs.

ANNUAL CRITERIA POLLUTANTS:

Current facility PTE and criteria pollutants reported for 2012 are as follow:

POLLUTANT	NSR RECORD PTE LB/DAY	NSR RECORD PTE TONS/YEAR	ACTUAL EMISSION REPORTED FOR 2012 TONS/YEAR
CO	39.00	7.02	0.438
NOX	35.00	6.30	1.642
PM10	6.00	1.08	0.607
ROG	55.00	9.90	106.880
SOX	2.00	0.36	0.045

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As shown above NSR records show a NOX PTE of 6.30 tons per year for the facility but the actual NOX reported is 1.642 tons/year. The permit applications above will be processed to limit fuel consumption or operating hours to limit NOX emissions from the equipment.

With change of condition applications, the permit conditions will be modified to enforce such limits. At the same time other permit conditions will be updated to include current requirements for engines and boilers. Also GHG will be calculated and recorded for the equipment.

APPLICATION 555961, BOILER (PERVIOUS 397951) AND APPLICATION 555962, BOILER (PERVIOUS 429559):

The two boilers listed above are subject to the same emission requirement. Facility is requesting a total fuel limit of 15.53 mmscf per month for both boilers. The permit conditions will be streamlined. The equipment are described below:

APPLICATION 555961:

EQUIPMENT DESCRIPTION:

BOILER, CLEAVER BROOKS, MODEL NO. CEW700-500, 19.95 MM BTU/HR, NATURAL GAS FIRED, EQUIPPED WITH A CLEAVER BROOKS LOW NOX BURNER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

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 EMIT NO MORE THAN 12 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO2, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O2.
[RULE 1146, RULE 1303(a)(1)-BACT]~~
3. ~~NOX EMISSIONS FROM THIS BOILER SHALL NOT EXCEED 12 PPMV AT 3% OXYGEN.
{RULE 1146, RULE 1303(a)(1)}~~
4. ~~CO EMISSIONS FROM THIS BOILER SHALL NOT EXCEED 50 PPMV AT 3% OXYGEN.~~



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~~[RULE 1146, RULE 1303(a)(1)]~~

5. ~~THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TEST UNDER THE FOLLOWING CONDITIONS:~~
- A. ~~SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.~~
 - B. ~~THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED BY THIS PERMIT.~~
 - C. ~~THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM, AND AVERAGE FIRING RATES.~~
 - D. ~~A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.~~
 - E. ~~TWO COMPLETE COPIES OF SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT LIMITED TO EMISSION RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. ~~THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM),~~
 - II. ~~THE FIRING RATES, IN BTU PER HOUR,~~
 - III. ~~THE EXHAUST TEMPERATURE IN DEGREES FAHRENHEIT,~~
 - IV. ~~THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND~~
 - V. ~~THE FUEL FLOW RATE.~~~~
 - F. ~~THE TEST SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST).~~
 - G. ~~SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.~~
~~[RULE 1146, RULE 1303(a)(1)]~~
4. ~~COMBINED FUEL USAGE FOR TWO 19.95 MM BTU/HR CLEAVER BROOKS BOILERS, MODEL NO. CEW700-500, SHALL NOT EXCEED 15.53 MMSCF/MONTH.~~
~~[RULE 1303(b)(2)-OFFSET]~~
5. ~~A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 3.~~
~~[RULE 1146]~~
6. ~~THE OPERATOR SHALL CONDUCT PERIODIC MONITORING OF NOX EMISSIONS PURSUANT TO THE SCHEDULE IN RULE 1146 WITH A PORTABLE NOX, CO, AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.~~



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[RULE 1146]

7. THE OPERATOR SHALL CONDUCT A SOURCE TEST ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH CO EMISSION LIMIT SPECIFIED IN CONDITION NO. 3 OR CONDUCT PERIODIC MONITORING WITH A PORTABLE NOX, CO AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
8. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1146.
[RULE 1146]
9. THIS BOILER MAY BE FIRED ON LPG DURING NATURAL GAS CURTAILMENT ONLY.
[RULE 1146]
10. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES THE BURNER SYSTEM SHALL BE ADJUSTED AT LEAST TWICE A YEAR IN THE FOLLOWING MANNER.
 - A. THE ADJUSTMENT SHALL BE MADE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ENSURE COMPLIANCE WITH RULE 1146,
 - B. THE ADJUSTMENT SHALL INCLUDE, AT A MINIMUM, MEASUREMENTS OF EFFLUENT CO, NO2, AND O2 CONCENTRATION BY USING A PORTABLE CHEMICAL CELL TYPE OR EQUIVALENT ANALYZER, AND
 - C. WRITTEN RECORDS OF THE MEASUREMENTS SHALL BE MAINTAINED AND KEPT FOR AT LEAST TWO YEARS. THESE RECORDS SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST
[RULE 1146]
11. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL METER TO INDICATE THE TOTAL NATURAL GAS FUEL SUPPLIED TO THE BOILER.
[RULE 1146]

PERIODIC MONITORING:

8. 12. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.
[RULE 3004(a)(4)]
9. 13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NOX EMISSION LIMITS BY CONDUCTING TESTS AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]



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EMISSIONS AND REQUIREMENTS:

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

- CO: 2000 PPM, RULE 407
- CO: 50 PPMV, RULE 1146
- NOX: 12 PPMV, RULE 1146
- PM: 0.1 GRAIN/SCF, RULE 409

APPLICATION 555962:

EQUIPMENT DESCRIPTION:

BOILER, CLEAVER BROOKS, FIRE TUBE TYPE, MODEL CEW 700-500, 19.95 MMBTU/HR NATURAL GAS FIRED, WITH A CLEAVER BROOKS NATURAL GAS FIRED LOW NOX BURNER, AN INDUCED FLUE GAS RECIRCULATION SYSTEM, AND OXYGEN TRIM.

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 BOILER SHALL EMIT NO MORE THAN 12 PPMV OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO2, AND 50 PPMV OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3 PERCENT OXYGEN.
[RULE 1146]
4. ~~THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS~~
 - A. ~~SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER INITIAL START UP.~~
 - B. ~~THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED BY THIS PERMIT.~~
 - C. ~~THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE FIRING RATES.~~



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- ~~D. A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P O BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.~~
- ~~E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORT SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, PO BOX 4941, DIAMOND BAR, CA 91765) WITHIN 45 DAYS AFTER THE TEST THE REPORT SHALL INCLUDE, BUT NOT LIMITED TO, EMISSION RATES IN POUNDS PER HOUR, AND CONCENTRATIONS IN PPMV, AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:~~
- ~~I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (AQMD);~~
 - ~~II. THE FIRING RATES, IN BTU PER HOUR,~~
 - ~~III. THE EXHAUST TEMPERATURE, IN DEGREES F,~~
 - ~~IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND~~
 - ~~V. THE FUEL FLOW RATE~~
- ~~F. THE TESTS SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH RULE 304 (NO CONFLICT OF INTEREST)~~
- ~~G. THE SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1146]~~
- ~~4. COMBINED FUEL USAGE FOR TWO 19.95 MM BTU/HR CLEAVER BROOKS BOILERS, MODEL NO. CEW700-500. SHALL NOT EXCEED 15.53 MMSCF/MONTH.
[RULE 1303(B)(2)-OFFSET]~~
- ~~5. THE OPERATOR OF THIS BOILER SHALL COMPLY WITH ANNUAL SOURCE TESTING REQUIREMENTS IN RULE 1146(D) COMPLIANCE DETERMINATION.
[RULE 1146]~~
- ~~5. A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 3.
[RULE 1146]~~
- ~~6. THE OPERATOR SHALL CONDUCT PERIODIC MONITORING OF NOX EMISSIONS PURSUANT TO THE SCHEDULE IN RULE 1146 WITH A PORTABLE NOX, CO, AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]~~
- ~~7. THE OPERATOR SHALL CONDUCT A SOURCE TEST ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH CO EMISSION LIMIT SPECIFIED IN CONDITION NO. 3 OR CONDUCT PERIODIC MONITORING WITH A PORTABLE NOX, CO AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]~~
8. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1146.
[RULE 1146]

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9. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES THE BURNER SYSTEM SHALL BE ADJUSTED AT LEAST TWICE A YEAR IN THE FOLLOWING MANNER.
- A. THE ADJUSTMENT SHALL BE MADE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ENSURE COMPLIANCE WITH RULE 1146,
 - B. THE ADJUSTMENT SHALL INCLUDE, AT A MINIMUM, MEASUREMENTS OF EFFLUENT CO, NO2, AND O2 CONCENTRATION BY USING A PORTABLE CHEMICAL CELL TYPE OR EQUIVALENT ANALYZER, AND
 - C. WRITTEN RECORDS OF THE MEASUREMENTS SHALL BE MAINTAINED AND KEPT FOR AT LEAST TWO YEARS THESE RECORDS SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST
[RULE 1146]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL METER TO INDICATE THE TOTAL NATURAL GAS FUEL SUPPLIED TO THE BOILER.
[RULE 1146]

PERIODIC MONITORING:

11. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.
[RULE 3004(a)(4)]
12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NOX EMISSION LIMITS BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004(a)(4)]

EMISSIONS AND REQUIREMENTS:

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

CO: 2000 PPM, RULE 407
CO: 50 PPMV, RULE 1146
NOX: 12 PPMV, RULE 1146
PM: 0.1 GRAIN/SCF, RULE 409

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EMISSION CALCULATION FOR BOILERS (A/N 555961 & 555962):

Operating Schedule: 24 hrs/day, 7 days/week, 52/weeks/year
Load: 100%
Burner Rating: 19.95 mmbtu/hr each boiler (39.9 mmbtu/hr total)
Main Fuel: Natural gas (1050 btu/cf)
Fuel consumption/boiler: 19,000 cf/hr (maximum)
Fuel consumption limit: 15.53 mmscf/month maximum for two boilers
Back-up fuel: None

EMISSION FACTORS:

POLLUTANTS	EMISSION FACTORS	UNIT	SOURCE
CO	50 (3% O2, DRY)	ppmv	Permit limit
NOX	12(3% O2, DRY)	ppmv	Permit limit
PM=PM10	7.5	lb/mmcf	AER Guideline
ROG	5.5	lb/mmcf	AER Guideline
SOX	0.83	lb/mmcf	AER Guideline
CO2	116.89	lb/mmbtu	AQMD
CH4	0.002	lb/mmbtu	AQMD
N2O	0.0002	lb/mmbtu	AQMD

EMISSION CALCULATIONS:

Controlled = Uncontrolled
 PM10 = PM

CO & NOX=(Exhaust flow rate scfm)(ppmv)(1 lb-mole/385 scf)x(MW lb/lb-mole)(60 min/hr)
 Molar volume @ 68°F = 385 scf/lb-mole
PM, ROG & SOX = (Fuel flow rate cf/hr)(lb/mmcf of fuel)

Calculation for maximum hourly and maximum daily:

Maximum fuel consumption/boiler = 19,000 cf/hr

Exhaust flowrate:

EPA factor for natural gas = 8740 dscf/mmbtu (68 F & 0% O2)
 (8740dscf/mmbtu)(20.9 - 0 / 20.9 - 3)=10,204 dscf/mmbtu (68 F & 3% O2)
 Exhaust = (10,204 dscf/mmbtu)(19.95 mmbtu/hr) = 203,569.8 dscf/hr

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$$\text{CO} = (203,569.8 \text{ dscf/hr})(50 \text{ ppm})(1 \text{ lb-mole}/385 \text{ scf})(28 \text{ lb/lb-mole})$$

$$= \underline{\underline{0.74025 \text{ lb/hr}}}$$

$$\text{NOX} = (203,569.8 \text{ dscf/hr})(12 \text{ ppm})(1 \text{ lb-mole}/385 \text{ scf})(46 \text{ lb/lb-mole})$$

$$= \underline{\underline{0.29187 \text{ lb/hr}}}$$

PM, ROG and SOX:

$$\text{E1 (PM, PM10)} = (19,000 \text{ cf/hr})(7.5 \text{ lb/mmcf}) = \underline{\underline{0.1425 \text{ lb/hr}}}$$

$$\text{E1 (ROG)} = (19,000 \text{ cf/hr})(5.5 \text{ lb/mmcf}) = \underline{\underline{0.1045 \text{ lb/hr}}}$$

$$\text{SOX:} = (19,000 \text{ cf/hr})(0.83 \text{ lb/mmcf}) = \underline{\underline{0.0158 \text{ lb/hr}}}$$

$$\text{CO}_2: = (19.95 \text{ mmbtu/hr})(116.89 \text{ lb/mmbtu}) = \underline{\underline{2331.9 \text{ lb/hr}}}$$

$$\text{CH}_4: = (19.95 \text{ mmbtu/hr})(0.002 \text{ lb/mmbtu}) = \underline{\underline{0.04 \text{ lb/hr}}}$$

$$\text{N}_2\text{O:} = (19.95 \text{ mmbtu/hr})(0.0002 \text{ lb/mmbtu}) = \underline{\underline{0.004 \text{ lb/hr}}}$$

Calculation for 30-day average daily:

Total monthly fuel consumption in two boilers = 15.53 mmscf/month

$$\begin{aligned} \text{Total BTU input} &= (15.53 \text{ mmscf/month})(1050 \text{ btu/cf}) = 16306.5 \text{ mmbtu/month} \\ &= 16306.5/30 = 543.55 \text{ mmbtu/day} \\ &= 543.55/24 = 22.65 \text{ mmbtu/hr} \\ &= 22.65/2 = 11.325 \text{ mmbtu/hr-boiler} \end{aligned}$$

The monthly gas limit will be used to calculate 30-day average emissions. The BTU rating of the boilers will be used to calculate maximum daily.

The average hourly BTU input into each boiler is 11.325 mmbtu/hr. Since the boilers are identical in size and emission requirements, calculation will be performed only for one boiler.



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POLLUTANT	HOURLY MAXIMUM LB/HR	DAILY MAXIMUM LB/DAY
CO	0.74	17.77
NOX	0.29	7.00
PM = PM10	0.14	3.42
ROG	0.10	2.51
SOX	0.02	0.38
CO2	2,331.90	55,965.60
CH4	0.04	0.96
N2O	0.00	0.10

Average gas flow rate per boiler = (11.325 mmbtu/hr)/(1050 btu/cf)= 10,786 cf/hr

Exhaust flowrate:

EPA factor for natural gas = 8740 dscf/mmbtu (68 F & 0% O2)

(8740dscf/mmbtu)(20.9 - 0 / 20.9 - 3)=10,204 dscf/mmbtu (68 F & 3% O2)

Exhaust = (10,204 dscf/mmbtu)(11.325 mmbtu/hr) = 115560.3 dscf/hr

CO = (115560.3 dscf/hr)(50 ppm)(1 lb-mole/385 scf)(28 lb/lb-mole)
= **0.42023 lb/hr**

NOX = (115560.3 dscf/hr)(12 ppm)(1 lb-mole/385 scf)(46 lb/lb-mole)
= **0.16569 lb/hr**

PM, ROG and SOX:

E1 (PM, PM10) = (10,786 cf/hr)(7.5 lb/mmcf) = **0.0810 lb/hr**

E1 (ROG) = (10,786 cf/hr)(5.5 lb/mmcf) = **0.0593 lb/hr**

SOX: = (10,786 cf/hr)(0.83 lb/mmcf) = **0.0090 lb/hr**

GHG:

CO2 = (11.325 mmbtu/hr)(116.89 lb/mmbtu) = **1323.8 lb/hr**

CH4 = (11.325 mmbtu/hr)(0.002 lb/mmbtu) = **0.02 lb/hr**

N2O = (11.325 mmbtu/hr)(0.0002 lb/mmbtu) = **0.0023 lb/hr**



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POLLUTANT	HOURLY AVERAGE LB/HR	DAILY AVERAGE LB/DAY	30DAY AVERAGE LB/DAY	ANNUAL AVERAGE LB/YEAR
CO	0.4202	10.08	10.08	3,630.53
NOX	0.1657	3.98	3.98	1,431.56
PM = PM10	0.0810	1.94	1.94	699.84
ROG	0.0593	1.42	1.42	512.35
SOX	0.0090	0.22	0.22	77.76
CO2	1320.9900	31,703.76	31,703.76	11,413,353.60
CH4	0.0215	0.52	0.52	185.76
N2O	0.0023	0.06	0.06	19.87

NSR EMISSIONS FOR EACH BOILER:

POLLUTANT	HOURLY MAX LB/HR	DAILY MAX LB/DAY	30-DAY AVERAGE LB/DAY	ANNUAL AVERAGE LB/YEAR
CO	0.7403	17.77	10.08	3,630.53
NOX	0.2919	7.00	3.98	1,431.56
PM10	0.1425	3.42	1.94	699.84
ROG	0.1045	2.51	1.42	512.35
SOX	0.0158	0.38	0.22	77.76
CO2	2,331.9	55,965.6	31,703.76	11,413,353.60
CH4	0.04	0.96	0.52	185.76
N2O	0.004	0.096	0.06	19.87

HEALTH RISK ASSESSMENT:

Change of condition with no emission increase, HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 555963 (previous 413877):

EQUIPMENT DESCRIPTION:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL 3516B DITA, 2847 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

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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 OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIMER TO INDICATE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]
4. ~~THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]~~
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4), 40 CFR 60.4214(b)]
6. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]

EMISSIONS AND REQUIREMENTS:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

EMISSION CALCULATIONS:

Except for SOX, the engine emission factors are copied from previous application. The SOX emissions will be based on new low sulfur diesel with emission factor of 0.006 gram/bhp for diesel engines. The same will be carried for all diesel fired engines in this evaluation.



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POLLUTANT	GRAM/BHP-HR
CO	0.36
NOX	5.47
PM10	0.1
ROG	0.13
SOX	0.006

	ENGINE HP	E. FACTOR GRAM/BHP LB/HR (GHG)	HRS/DAY	MAXIMUM FOR TESTING HRS/YEAR	LB/HR	LB/DAY	30-DAY-AVG LB/DAY	ANNUAL LB/YEAR
CO	2,847.0	0.36	1.00	20.00	2.26	2.26	0.13	45.15
NOX	2,847.0	5.47	1.00	20.00	34.30	34.30	1.91	686.04
PM10	2,847.0	0.10	1.00	20.00	0.63	0.63	0.03	12.54
ROG	2,847.0	0.13	1.00	20.00	0.82	0.82	0.05	16.30
SOX	2,847.0	0.01	1.00	20.00	0.04	0.04	0.00	0.75
CO2	2,847.0	3,213.90	1.00	20.00	3,213.90	3,213.90	178.55	64,278.00
CH4	2,847.0	0.06	1.00	20.00	0.06	0.06	0.00	1.20
N2O	2,847.0	0.04	1.00	20.00	0.04	0.04	0.00	0.80

HEALTH RISK ASSESSMENT:

Emergency engine are exempt from Health Risk Assessment. HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 555964 (previous 392000):

EQUIPMENT DESCRIPTION:

INTERNAL COMBUSTION ENGINE, PERKINS, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 1 006-6TAG, 216 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

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[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

[RULE 204]

3. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.

[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.

[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]

5. THE OPERATION OF THE ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.

[RULE 1470]

6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1470]

7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

- A. EMERGENCY USE HOURS OF OPERATION
- B. MAINTENANCE AND TESTING HOURS
- C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.

[RULE 1304, RULE 1470, 40 CFR 60.4214(b)]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(B).

[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]

9. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:



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- A. CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))
- B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST
- C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY
- D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST. [RULE 40 CFR PART 63 SUBPART ZZZZ]

10. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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. [RULE 40 CFR PART 63 SUBPART ZZZZ]

EMISSIONS AND REQUIREMENTS:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSIONS LIMITS

EMISSION CALCULATIONS:

POLLUTANT	GRAM/BHP-HR
CO	0.132
NOX	6.11
PM10	0.295
ROG	0.425
SOX	0.006



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	ENGINE HP	E. FACTOR GRAM/BHP LB/HR (GHG)	HRS/DAY	MAXIMUM FOR TESTING HRS/YEAR	LB/HR	LB/DAY	30-DAY-AVG LB/DAY	ANNUAL LB/YEAR
CO	216.0	0.132	1.00	20.00	0.06	0.06	0.00	1.26
NOX	216.0	6.110	1.00	20.00	2.91	2.91	0.16	58.14
PM10	216.0	0.295	1.00	20.00	0.14	0.14	0.01	2.81
ROG	216.0	0.425	1.00	20.00	0.20	0.20	0.01	4.04
SOX	216.0	0.006	1.00	20.00	0.00	0.00	0.00	0.06
CO2	216.0	243.835	1.00	20.00	243.84	243.84	13.55	4,876.70
CH4	216.0	0.005	1.00	20.00	0.00	0.00	0.00	0.09
N2O	216.0	0.003	1.00	20.00	0.00	0.00	0.00	0.07

HEALTH RISK ASSESSMENT:

Emergency engine are exempt from Health Risk Assessment. HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 555965 (previous 515309):

EQUIPMENT DESCRIPTION:

INTERNAL COMBUSTION ENGINE, CUMMINS, 6 CYLINDERS, TURBOCHARGED/AFTERCOOLED, MODEL NO. QSL9-G3, 399 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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. A NON-RESETTABLE TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a)(4), RULE 1470, 40 CFR 60.4209(a)]

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4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN ~~50~~ **20** HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304(a)(4), RULE 147, 40 CFR 4211(f)]

5. AN ENGINE OPERATING LOG OF ENGINE OPERATIONS SHALL BE KEPT AND MAINTAINED DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND THE SPECIFIC REASON FOR OPERATION AS:
 - A. EMERGENCY USE
 - B. MAINTENANCE AND TESTING
 - C. OTHER (BE SPECIFIC)

IN ADDITION, FOR EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF ENGINE OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND THE END OF THE OPERATION.
[RULE 1470, 40 CFR 60.4214 (b)]

6. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG:
 - A. THE TOTAL HOURS OF ENGINE OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
 - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.
[RULE 1470, 40 CFR 60.4214 (b)]

7. ENGINE OPERATION LOG(S) SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 3004(a)(4)]

8. OPERATION BEYOND THE ~~50~~ **20** HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT: (A) THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME; AND (B) THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]

9. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRICAL LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.
[RULE 1470]

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10. THIS ENGINE SHALL BE A US EPA CERTIFIED, NON-ROAD COMPRESSION-IGNITION ENGINE, AS EVIDENCED BY THE MANUFACTURER'S ENGINE TAG.
[RULE 1470]
11. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]
12. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS
- A. CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))
 - B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST
 - C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY
 - D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 40 CFR PART 63 SUBPART ZZZZ]
13. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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
[RULE 40 CFR PART 63 SUBPART ZZZZ]

EMISSIONS AND REQUIREMENTS:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

EMISSION CALCULATIONS:

POLLUTANT	GRAM/BHP-HR
CO	2.31
NOX	2.74
PM10	0.12
ROG	0.17
SOX	0.006



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	ENGINE HP	E. FACTOR GRAM/BHP LB/HR (GHG)	HRS/DAY	MAXIMUM FOR TESTING HRS/YEAR	LB/HR	LB/DAY	30-DAY-AVG LB/DAY	ANNUAL LB/YEAR
CO	399.0	2.310	1.00	20.00	2.03	2.03	0.11	40.60
NOX	399.0	2.740	1.00	20.00	2.41	2.41	0.13	48.16
PM10	399.0	0.120	1.00	20.00	0.11	0.11	0.01	2.11
ROG	399.0	0.170	1.00	20.00	0.15	0.15	0.01	2.99
SOX	399.0	0.006	1.00	20.00	0.01	0.01	0.00	0.11
CO2	399.0	450.417	1.00	20.00	450.42	450.42	25.02	9,008.34
CH4	399.0	0.009	1.00	20.00	0.01	0.01	0.00	0.17
N2O	399.0	0.006	1.00	20.00	0.01	0.01	0.00	0.12

HEALTH RISK ASSESSMENT:

Emergency engine are exempt from Health Risk Assessment. HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 555966 (previous 538398) :

EQUIPMENT DESCRIPTION:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDER, TURBOCHARGED/AFTERCOOLED, MODEL 3516C-DITA, 3622 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A NON-RESETTABLE TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304, RULE 1470, 40 CFR 60.4214 (b)]



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4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS EN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN ~~50~~ **20** HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304, RULE 1470, 40 CFR 60.4211 (f)]

5. AN ENGINE OPERATING LOG OF ENGINE OPERATIONS SHALL BE KEPT AND MAINTAINED DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND THE SPECIFIC REASON FOR OPERATION SUCH AS:
 - A. EMERGENCY USE
 - B. MAINTENANCE AND TESTING
 - C. OTHER (BE SPECIFIC)

IN ADDITION, FOR EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF ENGINE OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND THE END OF THE OPERATION.
[RULE 1470, 40 CFR 60.4214 (b)]

6. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG:
 - A. THE TOTAL HOURS OF ENGINE OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
 - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.[RULE 1470, 40 CFR 60.4214 (b)]

7. ENGINE OPERATION LOG(S) SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 3004(a)(4)]

8. OPERATION BEYOND THE ~~50~~ **20** HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT: (A) THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME; AND (B) THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
{RULE 1470}

9. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(B).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]



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EMISSIONS AND REQUIREMENTS:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

EMISSION CALCULATIONS:

POLLUTANT	GRAM/BHP-HR
CO	0.67
NOX	3.70
PM10	0.07
ROG	0.25
SOX	0.006

	ENGINE HP	E. FACTOR GRAM/BHP LB/HR (GHG)	HRS/DAY	MAXIMUM FOR TESTING HRS/YEAR	LB/HR	LB/DAY	30-DAY-AVG LB/DAY	ANNUAL LB/YEAR
CO	3,622.0	0.670	1.00	20.00	5.35	5.35	0.30	106.90
NOX	3,622.0	3.700	1.00	20.00	29.52	29.52	1.64	590.37
PM10	3,622.0	0.070	1.00	20.00	0.56	0.56	0.03	11.17
ROG	3,622.0	0.250	1.00	20.00	1.99	1.99	0.11	39.89
SOX	3,622.0	0.006	1.00	20.00	0.05	0.05	0.00	0.96
CO2	3,622.0	4,088.751	1.00	20.00	4,088.75	4,088.75	227.15	81,775.01
CH4	3,622.0	0.078	1.00	20.00	0.08	0.08	0.00	1.57
N2O	3,622.0	0.056	1.00	20.00	0.06	0.06	0.00	1.12

HEALTH RISK ASSESSMENT:

Emergency engine are exempt from Health Risk Assessment. HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 555967 (previous 522516):

The testing requirement for this equipment will remain 50 hours per year as permitted previously. However, emissions will be calculated and NSR will be revised to reflect the 30-day

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averages based on testing hours per year in accordance to the AQMD Policy and Procedure Memo No. EC-02-09 dated February 24, 2009.

EQUIPMENT DESCRIPTION:

INTERNAL COMBUSTION ENGINE, JOHN DEERE, MODEL NO. JTJ6H-UFADP8, SERIAL NO. PE6068L 162592, DIESEL FUELED, FOUR CYCLE, SIX CYLINDERS, TURBOCHARGED, AFTERCOOLED, RATED AT 220 BHP, DRIVING AN EMERGENCY FIRE PUMP.

CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(B).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]
5. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND SHALL DOCUMENT THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
 - A. EMERGENCY USE.
 - B. MAINTENANCE AND TESTING.
 - C. OTHER (DESCRIBE THE REASON FOR OPERATING.

IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TIME METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.

[RULE 1470, 40 CFR 60.4214(b)]

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7. ON OR BEFORE JANUARY 15 TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:
 - A. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
 - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR. ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF THREE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 1470, 40 CFR 60.4214(b)]

8. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS
 - A. CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))
 - B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST
 - C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY
 - D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 40 CFR PART 63 SUBPART ZZZZ]

9. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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
[RULE 40 CFR PART 63 SUBPART ZZZZ]

EMISSIONS AND REQUIREMENTS:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS



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EMISSION CALCULATIONS:

POLLUTANT	GRAM/BHP-HR
CO	0.9
NOX	2.70
PM10	0.1
ROG	0.1
SOX	0.006

	ENGINE HP	E. FACTOR GRAM/BHP LB/HR (GHG)	HRS/DAY	MAXIMUM FOR TESTING HRS/YEAR	LB/HR	LB/DAY	30-DAY-AVG LB/DAY	ANNUAL LB/YEAR
CO	220.0	0.900	1.00	50.00	0.44	0.44	0.06	21.81
NOX	220.0	2.700	1.00	50.00	1.31	1.31	0.18	65.42
PM10	220.0	0.100	1.00	50.00	0.05	0.05	0.01	2.42
ROG	220.0	0.100	1.00	50.00	0.05	0.05	0.01	2.42
SOX	220.0	0.006	1.00	50.00	0.00	0.00	0.00	0.15
CO2	220.0	248.350	1.00	50.00	248.35	248.35	34.49	12,417.52
CH4	220.0	0.005	1.00	50.00	0.00	0.00	0.00	0.24
N2O	220.0	0.003	1.00	50.00	0.00	0.00	0.00	0.17

HEALTH RISK ASSESSMENT:

Emergency engine are exempt from Health Risk Assessment. HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 555968 (previous 118961):

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. VT-1710PG635, DIESEL-FUELED, NATURALLY ASPIRATED, 636 BHP.

Conditions:

- OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.



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[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

[RULE 204]

3. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.

[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.

[RULE 3004(a)(4), 40 CFR 60.4209(a)]

5. THE OPERATION OF THE ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.

[RULE 1470]

6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1470]

7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

- A. EMERGENCY USE HOURS OF OPERATION
- B. MAINTENANCE AND TESTING HOURS
- C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.

[RULE 1304, RULE 1470, 40 CFR 60.4207(b)]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).

RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]



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EMISSIONS AND REQUIREMENTS:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSIONS LIMITS

EMISSION CALCULATIONS:

This engine was permitted in 1984. The application did not include emission factors for the engine, therefore default emission factors (as expressed in annual emission reporting guideline) were used to calculate emissions. Except for SOX those factors have remained unchanged. We will use the default emission factors and the data for fuel usage provided with previous application.

Fuel consumption = 34 gal/hr

POLLUTANT	Lb/1000 gal
CO	102
NOX	469
PM10	33.5
ROG	37.5
SOX	0.006 gram/bhp (low sulfur)

	GAL/HR OR BHP	E. FACTOR LB/1000 Gal LB/HR (GHG)	HRS/DAY	MAXIMUM FOR TESTING HRS/YEAR	LB/HR	LB/DAY	30-DAY-AVG LB/DAY	ANNUAL LB/YEAR
CO	34.0	102.000	1.00	20.00	3.47	3.47	0.19	69.36
NOX	34.0	469.000	1.00	20.00	15.95	15.95	0.89	318.92
PM10	34.0	33.500	1.00	20.00	1.14	1.14	0.06	22.78
ROG	34.0	37.500	1.00	20.00	1.28	1.28	0.07	25.50
SOX	636.0	0.006	1.00	20.00	0.01	0.01	0.00	0.17
CO2	636.0	717.960	1.00	20.00	717.96	717.96	39.89	14,359.20
CH4	636.0	0.014	1.00	20.00	0.01	0.01	0.00	0.27
N2O	636.0	0.010	1.00	20.00	0.01	0.01	0.00	0.20

HEALTH RISK ASSESSMENT:

Emergency engine are exempt from Health Risk Assessment. HRA is not required.

RULE EVALUATION:

Change of condition with no emission increase, rule evaluation is not required.

RECOMMENDATIONS:

Permit to Operate is hereby recommended subject to the conditions stated above.

APPLICATION 552408 (new installation, PC/PO):

EQUIPMENT DESCRIPTION:

BOILER, CLEAVER BROOKS, MODEL CBEX-700-900-150S, FIRE-TUBE, WITH A 37.656 MMBTU/HR CLEAVER BROOKS LOW NOX BURNER, NATURAL GAS FIRED, WITH FLUE GAS RECIRCULATION AND OXYGEN TRIM SYSTEM.

PERMIT CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 FIRED WITH NATURAL GAS ONLY.
[RULE 1303(a)(1), RULE 1146]
4. A TOTALIZING FUEL FLOW METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE TOTAL VOLUME OF NATURAL GAS SUPPLIED TO THIS BOILER.
[RULE 1146]
5. THE TOTAL NATURAL GAS SUPPLIED TO THIS BOILER SHALL NOT EXCEED 23.562 MMSCF/MONTH.
[RULE 1303(b)(2)]
6. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE A YEAR ACCORDING TO MANUFACTURER'S SPECIFICATIONS TO MAINTAIN REPEATABLE PERFORMANCE.
[RULE 1303(a)(1)]
7. THIS EQUIPMENT SHALL EMIT NO MORE THAN 9 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂.
[RULE 1303(a)(1), RULE 1146]
8. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY COMPLIANCE WITH CONDITION NO. 5, 6 & 7 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]
9. THIS EQUIPMENT SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]



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10. A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 7.
[RULE 1146]
11. THE OPERATOR SHALL CONDUCT PERIODIC MONITORING OF NOX EMISSIONS PURSUANT TO THE SCHEDULE IN RULE 1146 WITH A PORTABLE NOX, CO, AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
12. THE OPERATOR SHALL CONDUCT A SOURCE TEST ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH CO EMISSION LIMIT SPECIFIED IN CONDITION NO. 7 OR CONDUCT PERIODIC MONITORING WITH A PORTABLE NOX, CO AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
13. AN INITIAL SOURCE TEST SHALL BE CONDUCTED WITHIN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1), RULE 1146]
14. THE SOURCE TEST SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 7.
[RULE 1303(a)(1), RULE 1146]
15. TWO COPIES OF A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
[RULE 1146]
16. THE PROTOCOL SHALL BE APPROVED IN WRITING BY THE DISTRICT BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE COMPLETE FORMS ST-1 AND ST-2 SPECIFYING THE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, THE IDENTITY OF THE TESTING LABORATORY, A STATEMENT FROM THE TESTING LABORATORY CERTIFYING THAT IT MEETS THE CRITERIA IN DISTRICT RULE 304(K), AND A DESCRIPTION OF THE SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
[RULE 1146]
17. SOURCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES. THE SAMPLING TIMES SHALL BE AT LEAST 15 CONSECUTIVE MINUTES FOR MAXIMUM AND MINIMUM LOADS AND AT LEAST ONE HOUR FOR NORMAL OPERATING LOAD.
[RULE 1146]
18. WRITTEN CORRESPONDENCE SHALL BE ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) REFERENCING APPLICATION NO. 552408.
[RULE 1146]

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19. WRITTEN NOTICE OF THE SOURCE TEST SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
[RULE 1146]

20. TWO COMPLETE COPIES OF SOURCE TEST REPORT SHALL BE SUBMITTED TO THE DISTRICT, WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:

- I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM)
 - II. THE FIRING RATES, IN BTU PER HOUR
 - III. THE EXHAUST TEMPERATURE, IN DEGREE F.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND
 - V. THE FUEL FLOW RATE.
- [RULE 1146]

21. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
[RULE 1146]

22. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1146]

PERIODIC MONITORING:

23. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.
[RULE 3004(a)(4)]

24. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NOX EMISSION LIMITS BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

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

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CO: 2000 PPM, RULE 407
CO: 50 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
PM: 0.1 GRAIN/SCF, RULE 409

DATA & EMISSION CALCULATION:

Facility states maximum operating schedule is 24/hrs/day, 6 days/week and 52 weeks per year, but their emission calculations they have assumed 7 days/week. We will assume operating schedule of 24 hrs/day, 7 days/week, 52 weeks/year.

Operating Schedule: 24 hrs/day, 7 days/week, 52/weeks/year
Maximum Load: 100%
Burner Rating: 37.656 mmbtu/hr
Main Fuel: Natural gas (1050 btu/cf)
Fuel Flow: 35,863 cf/hr, maximum
Back-up fuel: None

EMISSION FACTORS:

POLLUTANTS	EMISSION FACTORS	UNIT	SOURCE
CO	50 (3% O2, DRY)	ppmv	BACT Guideline
NOX	9 (3% O2, DRY)	ppmv	Rule 1146 Guideline
PM=PM10	7.5	lb/mmcf	AER Guideline
ROG	5.5	lb/mmcf	AER Guideline
SOX	0.6	lb/mmcf	AER Guideline
CO2	116.89	lb/mmbtu	AQMD
CH4	0.002	lb/mmbtu	AQMD
N2O	0.0002	kglb/mmbtu	AQMD

EMISSION CALCULATIONS:

Controlled = Uncontrolled
PM10 = PM

CO & NOX = (Exhaust flow rate scfm)(ppmv)(1 lb-mole/385 scf)x(MW lb/lb-mole)(60 min/hr)

Molar volume @ 68°F = 385 scf/lb-mole

PM, ROG & SOX = (Fuel flow rate cf/hr)(lb/mmcf of fuel)

Exhaust flowrate:

EPA factor for natural gas = 8740 dscf/mmbtu (68 F & 0% O2)

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$$(8740 \text{ dscf/mmbtu})(20.9 - 0 / 20.9 - 3) = 10,204 \text{ dscf/mmbtu (68 F \& 3\% O}_2)$$

$$\text{Exhaust} = (10,204 \text{ dscf/mmbtu})(37.656 \text{ mmbtu/hr}) = 384,242 \text{ dscf/hr}$$

POLLUTANT	EMISSION FACTOR	UNIT	MAXIMUM EXHAUST FLOW, FUEL FLOW OR HEAT RATE	MAXIMUM EMISION RATE LB/HR
CO	50	PPMV (EXHAUST GAS)	384,242.00 CF/HR	1.3972
NOX	9	PPMV (EXHAUST GAS)	384,242.00 CF/HR	0.4132
PM = PM10	7.5	LB/MMCF (FUEL)	35,863.000 CF/HR	0.2690
ROG	5.5	LB/MMCF (FUEL)	35,863.000 CF/HR	0.1972
SOX	0.6	LB/MMCF (FUEL)	35,863.000 CF/HR	0.0215
CO2	116.89	LB/MMBTU (HEAT RATE)	37.656 MMBTU/HR	4,401.6098
CH4	0.002	LB/MMBTU (HEAT RATE)	37.656 MMBTU/HR	0.0753
N2O	0.0002	LB/MMBTU (HEAT RATE)	37.656 MMBTU/HR	0.0075

POLLUTANT	MAXIMUM EMISSION RATE LB/HR
CO	1.3972
NOX	0.4132
PM = PM10	0.2690
ROG	0.1972
SOX	0.0215
CO2	4,401.6098
CH4	0.0753
N2O	0.0075

Note: Operating schedule: 24 hrs/day, 7 days/week, 52 weeks/year

Maximum hourly and daily emission calculation (maximum fuel flow)

POLLUTANT	HOURLY MAXIMUM LB/HR	DAILY MAXIMUM LB/DAY
CO	1.3972	33.53
NOX	0.4132	9.92
PM = PM10	0.269	6.46
ROG	0.1972	4.73
SOX	0.0215	0.52
CO2	4,401.61	105,638.64
CH4	0.0753	1.81
N2O	0.0075	0.18

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The sum of emissions from existing combustion equipment and the new boiler exceeds 4 tons per day for NOX. Facility must also limit fuel for new boiler to remain below 4 tons per year for NOX.

CALCULATION WITH FUEL LIMITS:

Operating Schedule: 24 hrs/day, 7 days/week, 52/weeks/year
Maximum Load: 100%
Burner Rating: 37.656 mmbtu/hr
Main Fuel: Natural gas (1050 btu/cf)
Fuel Flow: 35,863 cf/hr, maximum
Back-up fuel: None

If we limit the fuel usage to 90% of the maximum, then:

$$\begin{aligned} \text{Fuel} &= (0.9)(35,863 \text{ cf/hr})(24 \text{ hrs/day})(365 \text{ days/year})/12 \text{ month/year} \\ &= 23,561,991.0 \text{ cf/month} \\ &= 32,724.99 \text{ cf/hr (average)} \end{aligned}$$

Calculation for 30-day average daily:

$$\begin{aligned} \text{Monthly fuel consumption limit for this boiler} &= 23.562 \text{ mmscf/month} \\ \text{Total BTU input} &= (23.562 \text{ mmscf/month})(1050 \text{ btu/cf}) = 24,740.1 \text{ mmbtu/month} \\ &= 24,740.1/30 = 824.67 \text{ mmbtu/day} \\ &= 824.67 /24 = 34.36 \text{ mmbtu/hr} \end{aligned}$$

The monthly gas limit will be used to calculate 30-day average emissions. The BTU rating of the boiler will be used to calculate maximum daily.

The average hourly BTU input into the boiler is 34.36 mmbtu/hr.

Controlled = Uncontrolled
PM10 = PM

$$\text{CO \& NOX} = (\text{Exhaust flow rate scfm})(\text{ppmv})(1 \text{ lb-mole}/385 \text{ scf}) \times (\text{MW lb}/\text{lb-mole})(60 \text{ min}/\text{hr})$$

Molar volume @ 68°F = 385 scf/lb-mole

$$\text{PM, ROG \& SOX} = (\text{Fuel flow rate cf/hr})(\text{lb}/\text{mmcf of fuel})$$

Exhaust flowrate:



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ENGINEERING AND COMPLIANCE DIVISION

PERMIT APPLICATION EVALUATION AND CALCULATIONS

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EPA factor for natural gas = 8740 dscf/mmbtu (68 F & 0% O₂)
 (8740dscf/mmbtu)(20.9 - 0 / 20.9 - 3)=10,204 dscf/mmbtu (68 F & 3% O₂)
 Exhaust = (10,204 dscf/mmbtu)(34.36 mmbtu/hr) = 350,609.44 dscf/hr

Emission calculations using the fuel usage limit.

POLLUTANT	EMISSION FACTOR	UNIT	AVERAGE EXHAUST FLOW , FUEL FLOW OR HEAT RATE		AVERAGE EMISON RATE LB/HR
CO	50	PPMV (EXHAUST GAS)	350609.44	CF/HR	1.2749
NOX	9	PPMV (EXHAUST GAS)	350609.44	CF/HR	0.3770
PM = PM10	7.5	LB/MMCF (FUEL)	32724.99	CF/HR	0.2454
ROG	5.5	LB/MMCF (FUEL)	32724.99	CF/HR	0.1800
SOX	0.6	LB/MMCF (FUEL)	32724.99	CF/HR	0.0196
CO2	116.89	LB/MMBTU (HEAT RATE)	34.36	MMBTU/HR	4,016.3404
CH4	0.002	LB/MMBTU (HEAT RATE)	34.36	MMBTU/HR	0.0687
N2O	0.0002	LB/MMBTU (HEAT RATE)	34.36	MMBTU/HR	0.0069

Operating schedule: 24 hrs/day, 7 days/week, 52 weeks/year

Fuel consumption limited to 23.562 mmscf/month which is 90% of maximum

POLLUTANT	HOURLY	DAILY	30DAY	ANNUAL
	AVERAGE	AVERAGE	AVERAGE	AVERAGE
	LB/HR	LB/DAY	LB/DAY	LB/YEAR
CO	1.2749	30.60	30.60	11,015.14
NOX	0.377	9.05	9.05	3,257.28
PM = PM10	0.2454	5.89	5.89	2,120.26
ROG	0.18	4.32	4.32	1,555.20
SOX	0.0196	0.47	0.47	169.34
CO2	4,016.34	96,392.17	96,392.17	34,701,181.06
CH4	0.0687	1.65	1.65	593.57
N2O	0.0069	0.17	0.17	59.62

NSR emissions:

POLLUTANT	HOURLY MAX LB/HR	DAILY MAX LB/DAY	30-DAY AVERAGE LB/DAY	ANNUAL AVERAGE LB/YEAR
CO	1.3972	33.53	30.60	11,015.14
NOX	0.4132	9.92	9.05	3,257.28
PM10	0.269	6.46	5.89	2,120.26
ROG	0.1972	4.73	4.32	1,555.20

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SOX	0.0215	0.52	0.47	169.34
CO2	4,401.61	105,638.64	96,392.17	34,701,181.06
CH4	0.0753	1.81	1.65	593.57
N2O	0.0075	0.18	0.17	59.62

For fuel limit of 23.562 mmscf/month, the total NOX for permitted combustion equipment will remain below 4 tons/year. For detail please see Rule evaluation section below, Rule REG XIII, Offset.

HEALTH RISK ASSESSMENT:

HRA is assessed based on 100% load and maximum operating schedule (24 hrs/day, 7 days/week, 52 weeks/year). The nearest residential receptor is about a 1000 feet away and the nearest commercial is at 200 feet. The boiler stack height is 24 feet from grade. For the given stack and receptor distances a Tier-2 HRA shows that MICR for the boiler **2.75E-08** and the total HIA and HIC are far below one for the equipment. For detail, please see HRA in the folder.

RULES EVALUATION:

Rule 212: Standards for Approving Permits:

For the purpose of this rule, a project requires notification if:

212(c)(1): There is increase in emissions or risk and there is K-12 school within 1000 ft from the facility.

212(c)(2): There is emission increase in excess of Rule 212(g) thresholds.

212(c)(3)(a): Cancer risk equal or greater than 1 in a million for a facility with more than one permit unit, unless the total cancer risk for the facility is less than 10 in a million or a single permit unit with cancer risk equal or greater than 10 in a million.

212(c)(3)(b): Quantities or concentrations of substances that pose a potential risk of nuisance.

Public notification for this project is not required for the following reasons:

212(c)(1): There is no school within 1000 ft from the facility.

212(c)(2): The emission increases are less than the thresholds in Rule 212(g)

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212(g): Although there is emission reduction as result of change of conditions, but even if do not include the reduction the maximum emission increase from the new boiler is less that Rule 212(g) thresholds. Please see table below for the thresholds and emission from the new boiler.

Contaminant	Rule 212 (g)	This equipment
	Daily Maximum	Daily Maximum
	lbs per Day	lbs per/day
CO	220	33.53
NOX	40	9.92
PM10	30	6.46
ROG	30	4.73
SOX	60	0.52
LEAD	3	N/A

In effect there are emission decreases for some contaminants. But at max the daily emission increases will not exceed rule 212(g) thresholds.

212(c)(3)(a): Cancer risk is less than one in a million for the equipment.

212(c)(3)(b): Nuisance potentials are minimal

Rule 401: Visible Emissions:
No visible emissions are expected from this type of equipment and thus compliance with this rule is expected.

Rule 402: Public Nuisance:
Nuisance problems due to the operation of this type equipment are unlikely.

Rule 404: Particulate Matter Concentration:
Boilers are exempt from this Rule.

Rule 407: Liquid and Gaseous Air Contaminant:

Rule Limit:

CO = 2000 PPMV

SO2 = Not applicable due to the limit of fuel sulfur content in 431.1

This Equipment:

CO = 50 PPMV



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ENGINEERING AND COMPLIANCE DIVISION

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Based on the emissions levels indicated above, compliance with this rule is expected.

Rule 409: Combustion Contaminants:

Rule Limit:

PM = 0.1 gr/cf

This equipment:

PM = 0.005 gr/cf

Based on the emissions levels indicated above, compliance with this rule is expected.

Rule 431.1: Sulfur Content of Gaseous Fuel:

The sulfur content of the natural gas supplied to the boilers is expected to meet less than 16 mmpv sulfur calculated as H₂S.

Rule 1146: Emissions of Oxides of Nitrogen from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters:

Rule Limit:

NOX = 9 PPMV

CO = 400 PPMV

This Boiler:

NOX = 9 PPMV <

CO = 50 PPMV <

Compliance with this rule is expected.

REGULATION XIII: New Source Review:

BACT:

POLLUTANT	LIMITS	SOURCE	This equipment
CO	50 ppmv	BACT guideline	50 ppmv <
NOX	9 ppmv	BACT guideline	9 ppmv <
PM10	Natural gas	BACT guideline	Natural gas
ROG	N/A	BACT guideline	N/A
SOX	Natural gas	BACT guideline	Natural gas

Compliance is expected.

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OFFSET:

The PTE in NSR for the facility is shown in the table below. Based on the PTE, NOX and ROG show levels greater than 4 tons per year. Facility submitted change of condition applications to limit NOX to a level below 4 tons per year so they can install a new boiler without ERC being triggered. The ROG is also above 4 tons, however a concurrent changes will not result in sufficient reduction to reduce ROG bellow offset exemption thresholds. To demonstrate this, the 30-day averages for NOX and ROG for the previous permits have been tabulated below. The decrease in NOX and ROG emissions will be compared to the increase of NOX and ROG for the new boiler.

POLLUTANT	NSR RECORD PTE LB/DAY	NSR RECORD PTE TONS/YEAR
CO	39.00	7.02
NOX	35.00	6.30
PM10	6.00	1.08
ROG	55.00	9.90
SOX	2.00	0.36

PREVIOUS APPLICATION	NEW APPLICATION	NOX		ROG	
		PREVIOUS 30-DAY AVERAGE LB/DAY	NEW 30-DAY AVERAGE LB/DAY	PREVIOUS 30-DAY AVERAGE LB/DAY	NEW 30-DAY AVERAGE LB/DAY
397951	555961	7.00	3.98	2.00	1.42
429559	555962	7.00	3.98	2.00	1.42
413877	555963	5.00	1.91	0.00	0.05
392000	555964	2.00	0.16	0.00	0.01
515309	555965	0.35	0.13	0.02	0.01
538398	555966	4.28	1.64	0.29	0.11
522516	555967	0.73	0.18	0.03	0.01
118961	555968	9.00	0.89	0.00	0.07
Total for existing equip.		35.36	12.87	4.34	3.10
New Boiler, AN 552408			9.05		4.32
Sum of Emissions			21.92		7.42

NOTE: The ROG tabulated above above is only from combustion equipment. There are substantial ROG from non-combustion process equipment.

As stated earlier, CO, PM10 and SOX levels will remain below the offset thresholds. Therefore we will determine if the change of conditions will reduce the emission below 4 tons for NOX and ROG only. The reduction in ROG "1.24 lb/day" will not



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reduce this contaminant to below 4 tons/year, therefore facility must provide ERC for ROG to install the boiler. But the sum of the NOX emissions for the equipment, including the new boiler is below 4 tons/year, ERC for NOX is not required. ERC to offset ROG emissions has been secured (ERC application number 559935) and it will be used to offset ROG emission increase for the boiler upon approval. ERC amount required to offset ROG emission from the boiler is:

$$ERC_{ROG} = (4.32 \text{ lb/day})(1.2) = 5.184 \text{ rounded to } 5.0 \text{ lb/day.}$$

5 lb of ERC for ROG is required.

In short the daily PTE for NOX and ROG before and after the above project is:

POLLUTANT	CURRENT	AFTER THE CHANGES ABOVE
	PTE LB/DAY	PTE LB/DAY
NOX	35.00	21.92
ROG	55.00	58.12

MODELING:

Total Boiler BTU rating is 37.656 mmbtu/hr

POLLUTANT	MODELING THRESHOLDS FOR COMBUSTION >30<40 MMBTU/HR LB/HR	THIS EQUIPMENT LB/HR
CO	72.1	1.3972
NOX	1.31	0.4132
PM10	7.9	0.2690
ROG	NOT REQUIRED	N/A
SOX	NOT REQUIRED	N/A

Based on the equipment emission rates, modeling is not required.

Rule 1401: New Source Review of Toxic Air Contaminants:

Based on the on HRA performed, compliance is expected.

CONCLUSIONS:

Emission calculations and equipment analysis show that the equipment would operate in compliance with all the applicable Rules and Regulations of the District.

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RECOMMENDATIONS:

Permit to Construct and Operate is hereby recommended subject to the conditions and requirements stated above.

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

**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.

**FACILITY PERMIT TO OPERATE
 BAXTER HEALTHCARE CORP, HYLAND DIVISION**

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
118961 555968	M38063 TBD	ICE (>500 HP) EM ELEC GEN, DIESEL
392000 555964	F45904 TBD	ICE (50-500 HP) EM ELEC GEN, DIESEL
397951 555961	F52803 TBD	BOILER (5-20 MMBTU/HR) NAT GAS ONLY
398398 removed	F56740	ICE (50-500 HP) EM FIRE FIGHT, DIESEL
413877 555963	F60920 TBD	ICE (>500 HP) EM ELEC GEN, DIESEL
429559 555962	F69132 TBD	BOILER (5-20 MMBTU/HR) NAT GAS ONLY
504773	G12209	ALCOHOL DISTILLATION
504774	G12210	STORAGE TANK, W/CTL, ALCOHOL
504775	G12211	STORAGE TANK, W/CTL, ALCOHOL
515309 555965	G10916 TBD	ICE (50-500 HP) EM ELEC GEN, DIESEL
522516 555967	G18835 TBD	ICE (50-500 HP) EM FIRE FIGHT, DIESEL
537729	G18662	BLOOD BLENDING
537730	G18663	BLOOD CLASSIFICATION
537731	G18676	SOLV RECLAIM STILL, (1 STAGE) ALCOHOL
537733	G18678	STORAGE TANK, ALCOHOL
537734	G18679	STORAGE TANK, ALCOHOL
537735	G18680	STORAGE TANK, ALCOHOL
537736	G18681	STORAGE TANK, ALCOHOL
537737	G18682	STORAGE TANK, ALCOHOL
538398 555966	G18829 TBD	ICE (>500 HP) EM ELEC GEN, DIESEL
552408	TBD	BOILER (>20 MMBTU/HR) NAT GAS ONLY

NOTE: EQUIPMENT LISTED ABOVE THAT DO NOT HAVE CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT (PC). 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.

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

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 FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. ON AND AFTER JUNE 1, 2004, DIESEL FUEL SHALL NOT BE PURCHASED FOR USE IN ANY STATIONARY SOURCE APPLICATION IN THE DISTRICT, UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER
[RULE 431.2]

3. ACCIDENTAL RELEASE PREVENTION REQUIREMENTS OF SECTION 112(r)(7):

THE OPERATOR SHALL COMPLY WITH THE ACCIDENTAL RELEASE PREVENTION REQUIREMENTS PURSUANT TO 40 CFR Part 68 AND SHALL SUBMIT TO THE EXECUTIVE OFFICER, AS PART OF ANNUAL COMPLIANCE CERTIFICATION, A STATEMENT THAT CERTIFIES COMPLIANCE WITH ALL THE REQUIREMENTS OF 40 CFR Part 68, INCLUDING THE REGISTRATION AND SUBMISSION OF A RISK MANAGEMENT PLAN (RMP). THE OPERATOR SHALL SUBMIT ANY ADDITIONAL RELEVANT INFORMATION REQUESTED BY THE EXECUTIVE OFFICER OR DESIGNATED AGENCY.
[40 CFR68-ACCIDENTAL RELEASE PREVENTION]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. ~~R-M38063~~ TBD
A/N ~~118961~~ 555968

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. VT-1710PG635, DIESEL-FUELED, NATURALLY ASPIRATED, 636 BHP.

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 ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 3004(a)(4), 40 CFR 60.4209(a)]
5. THE OPERATION OF THE ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[Rule 1470]
6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.
[RULE 1470]
7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

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- A. EMERGENCY USE HOURS OF OPERATION
- B. MAINTENANCE AND TESTING HOURS
- C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304, RULE 1470, 40 CFR 60.4207(b)]

- 8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSIONS LIMITS

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. F45904-TBD
A/N 392000 555964

Equipment Description:

INTERNAL COMBUSTION ENGINE, PERKINS, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 1 006-6TAG, 216 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

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 ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]
5. THE OPERATION OF THE ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]
6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.
[RULE 1470]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

7. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
- A. EMERGENCY USE HOURS OF OPERATION
 - B. MAINTENANCE AND TESTING HOURS
 - C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304, RULE 1470, 40 CFR 60.4214(b)]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]

9. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS

- A. CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))
- B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST
- C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY
- D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

[RULE 40 CFR PART 63 SUBPART ZZZZ]

10. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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

[RULE 40 CFR PART 63 SUBPART ZZZZ]

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BAXTER HEALTHCARE CORP, HYLAND DIVISION**

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSIONS LIMITS

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. **F52803 TBD**
A/N 397951 555961

Equipment Description:

BOILER, CLEAVER BROOKS, MODEL NO. CEW700-500, 19.95 MM BTU/HR, NATURAL GAS FIRED, EQUIPPED WITH A CLEAVER BROOKS LOW NOX BURNER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

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 EMIT NO MORE THAN 12 PPM OF OXIDES OF NITROGEN (NO_x), CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂.
[RULE 1303(a)(1)-BACT, RULE 1146]
- ~~3. NO_x EMISSIONS FROM THIS BOILER SHALL NOT EXCEED 12 PPMV AT 3% OXYGEN.
[RULE 1146, RULE 1303(a)(1)]~~
- ~~4. CO EMISSIONS FROM THIS BOILER SHALL NOT EXCEED 50 PPMV AT 3% OXYGEN.
[RULE 1146, RULE 1303(a)(1)]~~
- ~~5. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TEST UNDER THE FOLLOWING CONDITIONS:~~
 - ~~A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER INITIAL START UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.~~
 - ~~B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NO_x AND CO EMISSION LIMITS SPECIFIED BY THIS PERMIT.~~
 - ~~C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM, AND AVERAGE FIRING RATES.~~
 - ~~D. A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941,~~

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.

- E. ~~TWO COMPLETE COPIES OF SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT LIMITED TO EMISSION RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:~~
- I. ~~THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM);~~
 - II. ~~THE FIRING RATES, IN BTU PER HOUR;~~
 - III. ~~THE EXHAUST TEMPERATURE IN DEGREES FAHRENHEIT;~~
 - IV. ~~THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND~~
 - V. ~~THE FUEL FLOW RATE.~~
- F. ~~THE TEST SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST).~~
- G. ~~SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1146, RULE 1303(a)(1)]~~
4. COMBINED FUEL USAGE FOR TWO 19.95 MM BTU/HR CLEAVER BROOKS BOILERS, MODEL NO. CEW700-500, SHALL NOT EXCEED 15.53 MMSCF/MONTH.
[RULE 1303(b)(2)-OFFSET]
5. A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 3.
[RULE 1146]
6. THE OPERATOR SHALL CONDUCT PERIODIC MONITORING OF NOX EMISSIONS PURSUANT TO THE SCHEDULE IN RULE 1146 WITH A PORTABLE NOX, CO, AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
7. THE OPERATOR SHALL CONDUCT A SOURCE TEST ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH CO EMISSION LIMIT SPECIFIED IN CONDITION NO. 3 OR CONDUCT PERIODIC MONITORING WITH A PORTABLE NOX, CO AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
8. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1146.
[RULE 1146]
9. THIS BOILER MAY BE FIRED ON LPG DURING NATURAL GAS CURTAILMENT ONLY.

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

[RULE 1146]

10. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES THE BURNER SYSTEM SHALL BE ADJUSTED AT LEAST TWICE A YEAR IN THE FOLLOWING MANNER.

A. THE ADJUSTMENT SHALL BE MADE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ENSURE COMPLIANCE WITH RULE 1146,

B. THE ADJUSTMENT SHALL INCLUDE, AT A MINIMUM, MEASUREMENTS OF EFFLUENT CO, NO2, AND O2 CONCENTRATION BY USING A PORTABLE CHEMICAL CELL TYPE OR EQUIVALENT ANALYZER, AND

C. WRITTEN RECORDS OF THE MEASUREMENTS SHALL BE MAINTAINED AND KEPT FOR AT LEAST TWO YEARS. THESE RECORDS SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST

[RULE 1146]

11. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL METER TO INDICATE THE TOTAL NATURAL GAS FUEL SUPPLIED TO THE BOILER.

[RULE 1146]

Periodic Monitoring:

~~8.~~ 12. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.

[RULE 3004(a)(4)]

~~9.~~ 13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NOX EMISSION LIMITS BY CONDUCTING TESTS AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR , IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

Emissions And Requirements:

~~10.~~ 14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407
CO: 50 PPMV, RULE 1146
NOX: 12 PPMV, RULE 1146
PM: 0.1 GRAIN/SCF, RULE 409

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

**PERMIT TO OPERATE
REMOVED FROM SERVICE**

**Permit No. F56740
A/N 398398**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, DIESEL FUELED, EMERGENCY FIRE WATER PUMP DRIVER, MODEL 3208-175, NATURALLY ASPIRATED, 8 CYLINDERS, FOUR CYCLE, 160 BHP,

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. ~~A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.~~
~~[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]~~
4. ~~THIS ENGINE SHALL NOT BE OPERATED MORE THAN 125 HOURS IN ANY ONE YEAR UNLESS ADDITIONAL HOURS ARE OTHERWISE AUTHORIZED BY THE EXECUTIVE OFFICER THIS EQUIPMENT SHALL ONLY OPERATE DURING MAINTENANCE TESTING, PERFORMANCE TESTING, OR IN CASES OF EMERGENCY.~~
~~[RULE 1470, 40 CFR 60.4211(f)]~~
5. ~~THE ENGINE TIMING SHALL BE RETARDED 4 DEGREES RELATIVE TO STANDARD.~~
~~[RULE 1303(a)(1) BACT]~~
6. ~~AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.~~
~~[RULE 3004(a)(4), 40 CFR 60.4214(b)]~~
7. ~~THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).~~
~~[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]~~
8. ~~THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS~~
 - A. ~~CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))~~

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- ~~B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST~~
- ~~C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY~~
- ~~D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.~~
- ~~[RULE 40 CFR PART 63 SUBPART ZZZZ]~~
- ~~9. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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~~
- ~~[RULE 40 CFR PART 63 SUBPART ZZZZ]~~

Emissions And Requirements:

- ~~10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:~~
- ~~PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS~~

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO OPERATE

**Permit No. F60920 TBD
A/N 413877 555963**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL 3516B DITA, 2847 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

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 OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE ELAPSED TIMER TO INDICATE ELAPSED OPERATING TIME OF THE ENGINE.
[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]
- ~~4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]~~
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4), 40 CFR 60.4214(b)]
6. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. ~~F69132~~ TBD
A/N ~~429559-555962~~

Equipment Description:

BOILER, CLEAVER BROOKS, FIRE TUBE TYPE, MODEL CEW 700-500, 19.95 MMBTU/HR NATURAL GAS FIRED, WITH A CLEAVER BROOKS NATURAL GAS FIRED LOW NOX BURNER, AN INDUCED FLUE GAS RECIRCULATION SYSTEM, AND OXYGEN TRIM.

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 BOILER SHALL EMIT NO MORE THAN 12 PPMV OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND 50 PPMV OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3 PERCENT OXYGEN.
[RULE 1303(a)-BACT, RULE 1146]
4. ~~THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS~~
 - A. ~~SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER INITIAL START UP.~~
 - B. ~~THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED BY THIS PERMIT.~~
 - C. ~~THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE FIRING RATES.~~
 - D. ~~A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P O BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.~~
 - E. ~~TWO COMPLETE COPIES OF THE SOURCE TEST REPORT SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, PO BOX 4941, DIAMOND BAR, CA 91765) WITHIN 45 DAYS AFTER THE TEST THE REPORT SHALL INCLUDE, BUT NOT LIMITED TO, EMISSION RATES IN POUNDS PER HOUR, AND CONCENTRATIONS IN PPMV, AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT~~

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

~~3% OXYGEN THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:~~

- ~~I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (AQMD);~~
 - ~~II. THE FIRING RATES, IN BTU PER HOUR;~~
 - ~~III. THE EXHAUST TEMPERATURE, IN DEGREES F;~~
 - ~~IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND~~
 - ~~V. THE FUEL FLOW RATE~~
- ~~F. THE TESTS SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH RULE 304 (NO CONFLICT OF INTEREST)~~
- ~~G. THE SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217. [RULE 1146]~~
4. COMBINED FUEL USAGE FOR TWO 19.95 MM BTU/HR CLEAVER BROOKS BOILERS, MODEL NO. CEW700-500, SHALL NOT EXCEED 15.53 MMSCF/MONTH. [RULE 1303(b)(2)]
- ~~5. THE OPERATOR OF THIS BOILER SHALL COMPLY WITH ANNUAL SOURCE TESTING REQUIREMENTS IN RULE 1146(D) COMPLIANCE DETERMINATION. [RULE 1146]~~
5. A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 3. [RULE 1146]
6. THE OPERATOR SHALL CONDUCT PERIODIC MONITORING OF NOX EMISSIONS PURSUANT TO THE SCHEDULE IN RULE 1146 WITH A PORTABLE NOX, CO, AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN. [RULE 1146]
7. THE OPERATOR SHALL CONDUCT A SOURCE TEST ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH CO EMISSION LIMIT SPECIFIED IN CONDITION NO. 3 OR CONDUCT PERIODIC MONITORING WITH A PORTABLE NOX, CO AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN. [RULE 1146]
8. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULE 1146. [RULE 1146]
9. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES THE BURNER SYSTEM SHALL BE ADJUSTED AT LEAST TWICE A YEAR IN THE FOLLOWING MANNER.

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

- A. THE ADJUSTMENT SHALL BE MADE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ENSURE COMPLIANCE WITH RULE 1146,
 - B. THE ADJUSTMENT SHALL INCLUDE, AT A MINIMUM, MEASUREMENTS OF EFFLUENT CO, NO₂, AND O₂ CONCENTRATION BY USING A PORTABLE CHEMICAL CELL TYPE OR EQUIVALENT ANALYZER, AND
 - C. WRITTEN RECORDS OF THE MEASUREMENTS SHALL BE MAINTAINED AND KEPT FOR AT LEAST TWO YEARS THESE RECORDS SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST
[RULE 1146]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL METER TO INDICATE THE TOTAL NATURAL GAS FUEL SUPPLIED TO THE BOILER.
[RULE 1146]

Periodic Monitoring:

11. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.
[RULE 3004(a)(4)]
12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NO_x EMISSION LIMITS BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

Emissions And Requirements:

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPM, RULE 407
 - CO: 50 PPMV, RULE 1146
 - NO_x: 12 PPMV, RULE 1146
 - PM: 0.1 GRAIN/SCF, RULE 409

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. G12209
A/N 504773

Equipment Description:

SPENT ALCOHOL DISTILLATION SYSTEM CONSISTING OF:

1. DISTILLATION COLUMN NO. C1, 4'-0" DIA X 60'-0" H, WITH A PACKED SECTION, AND VALVE TRAYS SECTION.
2. MAIN CONDENSER NO. E-2, 2'-6" DIA. X 18'-0" L., 2850 SQ FT OF HEAT TRANSFER AREA, WATER COOLED.
3. VENT CONDENSER NO. E-4, 0'-6" DIA X 6'-0" L., 31 SQ FT OF HEAT TRANSFER AREA, CHILLED WATER COOLED.
4. REFLUX TANK NO. T-12, 3'-0" DIA X 5'-0", 290 GALLONS CAPACITY.
5. SEAL WATER TANK NO. T-15, 0'-10" DIA. X 2'-9", 4 GALLONS CAPACITY.
6. SEAL WATER COOLER NO. E-5, 0'-3" DIA X 3'-0" L., 79 SQ FT OF HEAT TRANSFER AREA, CHILLED WATER COOLED.
7. ALCOHOL COOLER NO. E-6, 0'-6" DIA X 6'-0" L., 15 SQ FT HEAT TRANSFER AREA, CHILLED WATER COOLED.
8. STEAM DESUPERHEATER NO. T-13, 2'-6" DIA. X 5'-0" L.
9. REBOILER NO. E-2, 2'-4" DIA. X 18'-0" L., 1684 SQ. FT. OF HEAT TRANSFER AREA.
10. FEED PREHEATER NO. E-1, SPIRAL HEAT EXCHANGER, 75 SQ. FT. OF HEAT TRANSFER AREA.
11. RECOVERED ALCOHOL ACCUMULATION TANK NO. T-14A, 8'-0" DIA X 22'-6"H, 6,500 GALLONS CAPACITY.
12. RECOVERED ALCOHOL ACCUMULATION TANK NO. T-14B, 8'-0" DIA X 22'-6"H, 6,500 GALLONS CAPACITY.
13. VENT CONDENSER NO. E-8 (VENTING TANK NO. T-14A, AND T-14B) 0'-6" DIA X 4'-0" L, 14 SQ. FT. OF HEAT TRANSFER AREA, CHILLED WATER COOLED.

Conditions:

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 ALL PROCESS VENTS ARE VENTED TO CHILLED WATER COOLED CONDENSERS.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
4. A TEMPERATURE GAUGE SHALL BE INSTALLED IN THE VENT STREAM OUTLET OF THE CHILLED WATER COOLED CONDENSERS, E-4, AND E-8.
[RULE 1303(a)(1)-BACT]
5. THE MAXIMUM TEMPERATURE AT THE VENT STREAM OUTLET OF THE CONDENSER, E-4, SHALL NOT EXCEED 60 DEGREES F, AND AT THE VENT STREAM OUTLET OF THE CONDENSER, E-8, SHALL NOT EXCEED 50 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
6. THE SUM OF VOC EMISSIONS FROM THE EQUIPMENT LISTED BELOW SHALL NOT EXCEED 484 POUNDS IN ANY CALENDAR MONTH.
 - I. SPENT ALCOHOL DISTILLATION SYSTEM, AND ITS ACCUMULATION TANKS (A/N 504773).
 - II. SPENT ALCOHOL FEED TANK, NO. T-11A (A/N 504774).
 - III. SPENT ALCOHOL FEED TANK, NO. T-11B (A/N 504775).[RULE 1303(b)(2)-OFFSET]
7. THE MONTHLY VOC EMISSION LIMIT OF 484 LB/MONTH DESCRIBED ABOVE SHALL BE DETERMINED USING THE MATHEMATICAL EQUATION BELOW:

$$\text{SUM OF VOC} = \frac{B}{1000} \{ [(2.902)^{-5}](M_c) + (-1.255)^{-4} (E_c)^2 + [(-2.401)^{-3} (M_c) + (2.035)^{-2} (E_c) + [(8.387)^{-2} (M_c) + (3.994)^{-1}] \}$$

WHERE:

- B = BATCH SIZE (GALLONS PER DAY)
M_c = METHANOL CONCENTRATION (WEIGHT PERCENT)
E_c = ETHANOL CONCENTRATION (WEIGHT PERCENT)

THE CONCENTRATIONS OF METHANOL AND ETHANOL IN SPENT ALCOHOL SHALL BE MEASURED AT THE OUTLET OF FEED TANK AT LEAST ONCE EVERY DAY AT THE START OF EACH BATCH AND WHEN THE FEED TANK IS ALTERNATED.

A BATCH SIZE SHALL BE LIMITED TO A VOLUME OF SPENT ALCOHOL FED TO DISTILLER IN 24 HOURS OF OPERATION OR LESS; AND A NEW BATCH SHALL BEGIN WHEN THE FEED TANK IS ALTERNATED.

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

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8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CALCULATE AND RECORD THE VOC EMISSIONS ON DAILY BASIS USING THE MEASURED PARAMETERS AND THE EQUATION PROVIDED IN CONDITION NO. 7 ABOVE.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET, RULE 300(a)(4)]
9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL INSTALL A NONRESETTABLE CONTINUOUS FLOW METER AT THE INLET TO THE DISTILLATION SYSTEM TO MEASURE THE TOTAL VOLUME OF SPENT ALCOHOL FED TO THE EQUIPMENT.
[RULE 1303(b)(2)-OFFSET]
10. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL KEEP RECORDS TO SHOW COMPLIANCE WITH CONDITION NO. 5, 6, 7, AND 8 ABOVE. THE RECORDS SHALL BE MAINTAINED AT THE PREMISES FOR PERIOD OF NOT LESS THAN FIVE YEARS AND BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 300(a)(4)]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

**Permit No. G12210
A/N 504774**

Equipment Description:

SPENT ALCOHOL FEED TANK, NO. T-11A, 14'-0" DIA. X 26'-0" H., 30,000 GALLONS CAPACITY, WITH VENT CONDENSER NO. E-7, (COMMON TO A/N 504774), 0'-6" DIA. X 4'-0" L., 14 SQ FT OF HEAT TRANSFER AREA, CHILLED WATER COOLED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 ALL PROCESS VENTS ARE VENTED TO A CHILLED WATER COOLED CONDENSER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
4. A TEMPERATURE GAUGE SHALL BE INSTALLED IN THE VENT STREAM OUTLET OF THE CHILLED WATER COOLED CONDENSER, E-7.
[RULE 1303(a)(1)-BACT]
5. THE MAXIMUM TEMPERATURE AT THE VENT STREAM OUTLET OF THE CONDENSER, E-7, SHALL NOT EXCEED 50 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
6. THE SUM OF VOC EMISSIONS FROM THE EQUIPMENT LISTED BELOW SHALL NOT EXCEED 484 POUNDS IN ANY CALENDAR MONTH.
 - I. SPENT ALCOHOL DISTILLATION SYSTEM, AND ITS ACCUMULATION TANKS (A/N 504773).
 - II. SPENT ALCOHOL FEED TANK, NO. T-11A (A/N 504774).
 - III. SPENT ALCOHOL FEED TANK, NO. T-11B (A/N 504775).[RULE 1303(b)(2)-OFFSET]
7. THE MONTHLY VOC EMISSION LIMIT OF 484 LB/MONTH DESCRIBED ABOVE SHALL BE DETERMINED USING THE MATHEMATICAL EQUATION BELOW:

$$\text{SUM OF VOC} = \frac{B}{1000} \{ [(2.902)^{-5}(M_c) + (-1.255)^{-4}](E_c)^2 + [(-2.401)^{-3}(M_c) + (2.035)^{-2}](E_c) + [(8.387)^{-2}(M_c) + (3.994)^{-1}] \}$$

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

WHERE:

B = BATCH SIZE (GALLONS PER DAY)
M_c = METHANOL CONCENTRATION (WEIGHT PERCENT)
E_c = ETHANOL CONCENTRATION (WEIGHT PERCENT)

THE CONCENTRATIONS OF METHANOL AND ETHANOL IN SPENT ALCOHOL SHALL BE MEASURED AT THE OUTLET OF FEED TANK AT LEAST ONCE EVERY DAY AT THE START OF EACH BATCH AND WHEN THE FEED TANK IS ALTERNATED.

A BATCH SIZE SHALL BE LIMITED TO A VOLUME OF SPENT ALCOHOL FED TO DISTILLER IN 24 HOURS OF OPERATION OR LESS; AND A NEW BATCH SHALL BEGIN WHEN THE FEED TANK IS ALTERNATED.

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

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CALCULATE AND RECORD THE VOC EMISSIONS ON DAILY BASIS USING THE MEASURED PARAMETERS AND THE EQUATION PROVIDED IN CONDITION NO. 7 ABOVE.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET, RULE 3004(a)(4)]
9. THE SUM OF INFLUENT TO TANK T-11A AND TANK T-11B IN A CALENDAR MONTH SHALL NOT BE GREATER THAN THE MONTHLY SPENT ALCOHOL FEED TO THE DISTILLATION SYSTEM.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
10. TO COMPLY WITH CONDITION NO. 9 OF THIS PERMIT, THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL INSTALL NONRESETTABLE CONTINUOUS FLOW METERS AT THE INLETS TO THE TANK TO MEASURE THE VOLUME OF MATERIAL ADDED TO THE TANK.
[RULE 1303(b)(2)-OFFSET]
11. NO ADDITIONAL MATERIAL SHALL BE ADDED TO THIS TANK ONCE THE TANK HAS BEGUN OPERATING TO SUPPLY FEED MATERIAL TO THE SPENT ALCOHOL DISTILLATION SYSTEM.
[RULE 1303(b)(2)-OFFSET]
12. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL KEEP RECORDS TO SHOW COMPLIANCE WITH CONDITION NO. 5, 6, 7, 8, AND 9 ABOVE. THE RECORDS SHALL BE MAINTAINED AT THE PREMISES FOR PERIOD OF NOT LESS THAN TWO YEARS AND BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. G12211
A/N 504775

Equipment Description:

SPENT ALCOHOL FEED TANK, NO. T-11B, 14'-0" DIA. X 26'-0" H., 30,000 GALLONS CAPACITY WITH VENT CONDENSER NO. E-7, (COMMON TO A/N 504773), 0'-6" DIA. X 4'-0" L., 14 SQ FT OF HEAT TRANSFER AREA, CHILLED WATER COOLED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 ALL PROCESS VENTS ARE VENTED TO A CHILLED WATER COOLED CONDENSER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
4. A TEMPERATURE GAUGE SHALL BE INSTALLED IN THE VENT STREAM OUTLET OF THE CHILLED WATER COOLED CONDENSER, E-7.
[RULE 1303(a)(1)-BACT]
5. THE MAXIMUM TEMPERATURE AT THE VENT STREAM OUTLET OF THE CONDENSER, E-7, SHALL NOT EXCEED 50 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
6. THE SUM OF VOC EMISSIONS FROM THE EQUIPMENT LISTED BELOW SHALL NOT EXCEED 484 POUNDS IN ANY CALENDAR MONTH.
 - I. SPENT ALCOHOL DISTILLATION SYSTEM, AND ITS ACCUMULATION TANKS (A/N 504773).
 - II. SPENT ALCOHOL FEED TANK, NO. T-11A (A/N 504774).
 - III. SPENT ALCOHOL FEED TANK, NO. T-11B (A/N 504775).[RULE 1303(b)(2)-OFFSET]
7. THE MONTHLY VOC EMISSION LIMIT OF 484 LB/MONTH DESCRIBED ABOVE SHALL BE DETERMINED USING THE MATHEMATICAL EQUATION BELOW:

$$\text{SUM OF VOC} = \frac{B}{1000} \{ [(2.902)^{-5}(M_c) + (-1.255)^{-4}](E_c)^2 + [(-2.401)^{-3}(M_c) + (2.035)^{-2}](E_c) + [(8.387)^{-2}(M_c) + (3.994)^{-1}] \}$$

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

WHERE:

B = BATCH SIZE (GALLONS PER DAY)
M_c = METHANOL CONCENTRATION (WEIGHT PERCENT)
E_c = ETHANOL CONCENTRATION (WEIGHT PERCENT)

THE CONCENTRATIONS OF METHANOL AND ETHANOL IN SPENT ALCOHOL SHALL BE MEASURED AT THE OUTLET OF FEED TANK AT LEAST ONCE EVERY DAY AT THE START OF EACH BATCH AND WHEN THE FEED TANK IS ALTERNATED.

A BATCH SIZE SHALL BE DETERMINED AT LEAST ONCE EVERY DAY AND WHEN THE FEED TANK IS ALTERNATED.

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

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CALCULATE AND RECORD THE VOC EMISSIONS ON DAILY BASIS USING THE MEASURED PARAMETERS AND THE EQUATION PROVIDED IN CONDITION NO. 7 ABOVE.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET, RULE 3004(a)(4)]
9. THE SUM OF INFLUENT TO TANK T-11A AND TANK T-11B IN A CALENDAR MONTH SHALL NOT BE GREATER THAN THE MONTHLY SPENT ALCOHOL FEED TO THE DISTILLATION SYSTEM.
[RULE 1303(b)(2)-OFFSET]
10. TO COMPLY WITH CONDITION NO. 9 OF THIS PERMIT, THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL INSTALL NONRESETTABLE CONTINUOUS FLOW METERS AT THE INLETS TO THE TANK TO MEASURE THE VOLUME OF MATERIAL ADDED TO THE TANK.
[RULE 1303(b)(2)-OFFSET]
11. NO ADDITIONAL MATERIAL SHALL BE ADDED TO THIS TANK ONCE THE TANK HAS BEGUN OPERATING TO SUPPLY FEED MATERIAL TO THE SPENT ALCOHOL DISTILLATION SYSTEM.
[RULE 1303(b)(2)-OFFSET]
12. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL KEEP RECORDS TO SHOW COMPLIANCE WITH CONDITION NO. 5, 6, 7, 8, AND 9 ABOVE. THE RECORDS SHALL BE MAINTAINED AT THE PREMISES FOR PERIOD OF NOT LESS THAN TWO YEARS AND BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. G10916-TBD
A/N 515309 555965

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, 6 CYLINDERS, TURBOCHARGED/AFTERCOOLED, MODEL NO. QSL9-G3, 399 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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. A NON-RESETTABLE TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a)(4), RULE 1470, 40 CFR 60.4209(a)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN ~~50~~ 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304(a)(4), RULE 147, 40 CFR 4211(f)]
5. AN ENGINE OPERATING LOG OF ENGINE OPERATIONS SHALL BE KEPT AND MAINTAINED DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND THE SPECIFIC REASON FOR OPERATION AS:
 - A. EMERGENCY USE
 - B. MAINTENANCE AND TESTING
 - C. OTHER (BE SPECIFIC)

IN ADDITION, FOR EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF ENGINE OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND THE END OF THE OPERATION.

[RULE 1470, 40 CFR 60.4214 (b)]

6. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG:

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

- A. THE TOTAL HOURS OF ENGINE OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
 - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.
[RULE 1470, 40 CFR 60.4214 (b)]
7. ENGINE OPERATION LOG(S) SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 3004(a)(4)]
8. OPERATION BEYOND THE ~~50~~ 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT: (A) THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME; AND (B) THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]
9. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRICAL LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.
[RULE 1470]
10. THIS ENGINE SHALL BE A US EPA CERTIFIED, NON-ROAD COMPRESSION-IGNITION ENGINE, AS EVIDENCED BY THE MANUFACTURER'S ENGINE TAG.
[RULE 1470]
11. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]
12. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS
- A. CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))
 - B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST
 - C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY

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D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

[RULE 40 CFR PART 63 SUBPART ZZZZ]

13. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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

[RULE 40 CFR PART 63 SUBPART ZZZZ]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO CONSTRUCT

**Permit No. G18835 TBD
A/N 522516 555967**

Equipment Description:

INTERNAL COMBUSTION ENGINE, JOHN DEERE, MODEL NO. JTJ6H-UFADP8, SERIAL NO. PE6068L 162592, DIESEL FUELED, FOUR CYCLE, SIX CYLINDERS, TURBOCHARGED, AFTERCOOLED, RATED AT 220 BHP, DRIVING AN EMERGENCY FIRE PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304, RULE 1470, 40 CFR 60.4209(a)]
5. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1304, RULE 1470, 40 CFR 60.4211(f)]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND SHALL DOCUMENT THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
 - A. EMERGENCY USE.
 - B. MAINTENANCE AND TESTING.
 - C. OTHER (DESCRIBE THE REASON FOR OPERATING).

IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TIME METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.

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[RULE 1470, 40 CFR 60.4214(b)]

7. ON OR BEFORE JANUARY 15 TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:
- A. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
 - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR. ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF THREE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.

[RULE 1470, 40 CFR 60.4214(b)]

8. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS
- A. CHANGE OIL AND FILTER EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST (OR ACCORDING TO THE OIL ANALYSIS PROGRAM IN 40 CFR 63.6625 (J))
 - B. INSPECT AIR CLEANER EVERY 1000 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST
 - C. INSPECT ALL HOSES AND BELTS EVERY 500 HOURS OF OPERATION OR ANNUALLY WHICHEVER COMES FIRST AND REPLACE AS NECESSARY
 - D. RECORDS SHALL BE MAINTAINED ACCORDING TO 40 CFR 63.6655(a) AND (e). ALL RECORDS REQUIRED BY THESE DEVICES SHALL BE RETAINED FOR A MINIMUM OF FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

[RULE 40 CFR PART 63 SUBPART ZZZZ]

9. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS PER 40 CFR 63.6625 (e) AND 63.6640 (a), THE OPERATOR SHALL OPERATE AND MAINTAIN THIS ENGINE AND AFTER-TREATMENT CONTROL DEVICE (IF ANY) ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED WRITTEN INSTRUCTIONS OR DEVELOP 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

[RULE 40 CFR PART 63 SUBPART ZZZZ]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. G18662
A/N 537729

Equipment Description:

BLOOD FRACTIONATION SYSTEM CONSISTING OF:

1. PROCESS TANK NO. 2, 6'-9" D X 8'-5" H, 1,107 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
2. PROCESS TANK NO. 3, 6'-9" D X 9'-4" H, 1,597 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
3. PROCESS TANK NO. 4, 6'-9" D X 8'-5" H, 1,341 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
4. PROCESS TANK NO. 4.1, 6'-8" D X 7'-4" H, 1,189 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
5. PROCESS TANK NO. 4.2, 6'-8" D X 7'-4" H, 1,189 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
6. PROCESS TANK NO. 4.3, 6'-8" D X 7'-4" H, 1,189 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
7. PROCESS TANK NO. 5, 6'-9" D X 9'-4" H, 1,592 GALLONS CAPACITY WITH A 2.0 H P AGITATOR.
8. PROCESS TANK NO. 5.1, 6'-8" D X 7'-4" H, 1,189 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
9. PROCESS TANK NO. 5.2, 6'-8" D X 7'-4" H, 1,189 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
10. PROCESS TANK NO. 5.3, 6'-8" D X 7'-4" H, 1,189 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
11. PROCESS TANK NO. 6, 6'-9" D X 9'-4" H, 1,599 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
12. PROCESS TANK NO. 7, 6'-9" D X 8'-5" H, 1,344 GALLONS CAPACITY WITH A 2.0 H P AGITATOR.
13. PROCESS TANK NO. 8, 6'-9" D X 8'-5" H, 1,356 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
14. PROCESS TANK NO. 9, 6'-9" D X 8'-5" H, 1,354 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
15. PROCESS TANK NO. 10, 6'-9" D X 8'-5" H, 1,360 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
16. PROCESS TANK NO. 11, 6'-9" D X 8'-5" H, 1,337 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
17. PROCESS TANK NO. 12, 6'-9" D X 8'-5" H, 1,332 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
18. PROCESS TANK NO. 13, 6'-9" D X 8'-5" H, 1,339 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
19. PROCESS TANK NO. 14, 6'-9" D X 8'-5" H, 1,353 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
20. PROCESS TANK NO. 15, 6'-9" D X 9'-4" H, 1,573 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

21. PROCESS TANK NO. 16, 6'-0" D X 7'-5" H, 1,107 GALLONS CAPACITY WITH A 1.0 HP AGITATOR.
22. PROCESS TANK NO. 17, 6'-0" D X 7'-5" H, 1,083 GALLONS CAPACITY WITH A 1.0 HP AGITATOR.
23. PROCESS TANK NO. 18, 6'-0" D X 7'-5" H, 1,102 GALLONS CAPACITY WITH A 1.0 HP AGITATOR.
24. PROCESS TANK NO. 19, 6'-0" D X 7'-5" H, 1,099 GALLONS CAPACITY WITH A 1.0 HP AGITATOR.
25. PROCESS TANK NO. 21, 7'-9" D X 8'-7" H, 1,739 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
26. PROCESS TANK NO. 22, 7'-9" D X 8'-7" H, 1,771 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
27. PROCESS TANK NO. 23, 7'-9" D X 8'-7" H, 1,765 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
28. PROCESS TANK NO. 24, 7'-9" D X 8'-7" H, 1,778 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
29. PROCESS TANK NO. 25, 7'-9" D X 8'-7" H, 1,793 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
30. PROCESS TANK NO. 26, 7'-9" D X 8'-7" H, 1,814 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
31. PROCESS TANK NO. 27, 7'-9" D X 8'-7" H, 1,818 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
32. PROCESS TANK NO. 28, 7'-9" D X 8'-7" H, 1,844 GALLONS CAPACITY WITH A 2.5 H P AGITATOR.
33. PROCESS TANK NO. 29, 7'-9" D X 8'-7" H, 1,750 GALLONS CAPACITY WITH A 2.5 H P AGITATOR.
34. PROCESS TANK NO. 30, 7'-9" D X 8'-7" H, 1,771 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
35. PROCESS TANK NO. 31, 7'-9" D X 8'-7" H, 1,749 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
36. PROCESS TANK NO. 32, 7'-9" D X 8'-7" H, 1,742 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
37. PROCESS TANK NO. 33, 6'-9" D X 8'-5" H, 1,328 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
38. PROCESS TANK NO. 34, 6'-9" D X 8'-5" H, 1,348 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
39. PROCESS TANK NO. 40, 6'-0" D X 7'-5" H, 1,058 GALLONS CAPACITY WITH A 3.0 HP AGITATOR.
40. PROCESS TANK NO. 41, 6'-9" D X 9'-4" H, 1,576 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
41. PROCESS TANK NO. 42, 6'-9" D X 9'-4" H, 1,590 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
42. PROCESS TANK NO. 43, 6'-9" D X 9'-4" H, 1,581 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.
43. PROCESS TANK NO. 44, 6'-0" D X 8'-7" H, 1,191 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
44. PROCESS TANK NO. 45, 6'-0" D X 8'-7" H, 1,212 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
45. PROCESS TANK NO. 48, 6'-9" D X 9'-4" H, 1,566 GALLONS CAPACITY WITH A 2.0 HP AGITATOR.

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

46. PROCESS TANK NO. 51, 7'-9" D X 8'-9" H, 1,121 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
47. PROCESS TANK NO. 52, 7'-9" D X 8'-9" H, 1,109 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
48. PROCESS TANK NO. 53, 6'-0" D X 7'-5" H, 1,293 GALLONS CAPACITY WITH A 1.0 HP AGITATOR.
49. PROCESS TANK NO. 54, 6'-0" D X 7'-5" H, 1,214 GALLONS CAPACITY WITH A 2.5 HP AGITATOR.
50. TWO (2) FILTER PRESSES 4'-5" D X 0'-10" H, 5 HP EACH.
51. NINE (9) CENTRIFUGES, WESTFALIA 3'-1" D X 5'-6" H, 1.17 HP EACH.
52. TWO (2) EMI TANKS, 4'-1" D X 4'-3" H , 238 GALLONS CAPACITY WITH A 0.8 HP AGITATOR FOR EACH TANK
53. FORTY (40) PORTABLE TANKS, EACH 132 GALLONS MAXIMUM CAPACITY.
54. ONE (1) HEMOGLOBIN TANK, 3'-3" D X 5'-7" H , WITH A 0.4 HP AGITATOR.
55. THIRTEEN (13) CUNO FILTERS, PORTABLE.
56. TEN (10) FILTER PUMPS, 0.75 HP EACH.
57. NINE (9) CENTRIFUGE PUMPS, 0.75 HP EACH.
58. TWO (2) SUSPENSION PUMPS, 0.75 HP EACH.
59. ONE (1) FILTER PRESS PUMP, 5.0 HP.
60. ONE (1) 40% POST-WASH PUMP, 0.75 HP.
61. TWO (2) POLE MIXERS, 3 HP EACH.
62. TWO (2) CENTRIFUGES, WESTFALIA 3'-1" D X 5'-6" H, 1.17 HP EACH.
63. THREE (3) FILTER PRESSES, 9'-0" L X 3'-1" W, 5 HP EACH.
64. TWO (2) FILTER PRESSES, 9'-0" L X 3'-1" W, 5 HP EACH.
65. TWO (2) EMI TANKS, 1,075 GALLONS CAPACITY, WITH AN AGITATOR FOR EACH TANK.
66. FILTER PRESS, 9'-0"L X 3'-0"W, 5 HP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE MAXIMUM QUANTITY OF PLASMA PROCESSED IN THIS EQUIPMENT SHALL NOT EXCEED 74,420 GALLONS (281,710 LITERS) PER CALENDAR MONTH.
[RULE 1303(b)(2)-OFFSET]
4. THE VOC EMISSIONS FROM THIS EQUIPMENT SHALL NOT EXCEED 810 POUNDS PER CALENDAR MONTH.
[RULE 1303(b)(2)-OFFSET]
5. THE OPERATOR SHALL INSTALL A TEMPERATURE MEASURING/RECORDING DEVICE IN EACH BLOOD FRACTIONATION PROCESS ROOM.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
6. THE TEMPERATURE WITHIN EACH ROOM SHALL BE MAINTAINED AT 41 DEGREES FAHRENHEIT (5 DEGREES CELSIUS) OR LOWER.
[RULE 1303(b)(2)-OFFSET]
7. RECORDS SHALL BE MAINTAINED BY THE OPERATOR TO DEMONSTRATE COMPLIANCE WITH CONDITION(S) (3), (4), (5), AND (6) ABOVE SUCH RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE AT THE REQUEST OF AQMD.
[RULE 3004(a)(4)]
8. MATERIAL SAFETY DATA SHEETS FOR MATERIALS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO THE DISTRICT PERSONNEL UPON REQUEST.
[RULE 1401]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

**Permit No. G18663
A/N 537730**

Equipment Description:

BLOOD FRACTIONATION SYSTEM CONSISTING OF:

1. PRECIPITATION TANK NO. V-006, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
2. PRECIPITATION TANK NO. V-006, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
3. PRECIPITATION TANK NO. V-007, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
4. PRECIPITATION TANK NO. V-010, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
5. PRECIPITATION TANK NO. V-011, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
6. PRECIPITATION TANK NO. V-012, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
7. PRECIPITATION TANK NO. V-014, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
8. PRECIPITATION TANK NO V-015, 7'-0" DIA X 8'-0" H, 11,335 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 2 HP AGITATOR.
9. PRECIPITATION TANK NO V-008, 7'-8" DIA X 9'-0" H, 13,170 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 3 HP AGITATOR.
10. PRECIPITATION TANK NO. V-016, 7'-8" DIA X 9'-0" H, 13,170 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 3 HP AGITATOR.
11. PRECIPITATION TANK NO. V-017, 7'-8" DIA X 9'-0" H, 13,170 LITERS CAPACITY WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 3 HP AGITATOR.
12. PRECIPITATION TANK NO. V-018, 7'-8" DIA X 9'-0" H, 13,170 LITERS CAPACITY WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 3 HP AGITATOR.
13. PRECIPITATION TANK NO. V-020, 7'-8" DIA X 9'-0" H, 13,170 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 3 HP AGITATOR.

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

14. PRECIPITATION TANK NO. V-013, 7'-8" DIA X 9'-0" H, 13,170 LITERS CAPACITY WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 3 HP AGITATOR.
15. PRECIPITATION TANK NO. V-022, 9'-0" DIA X 10'-0" H, 20,175, LITERS CAPACITY WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 5 HP AGITATOR.
16. PRECIPITATION TANK NO. V-023, 9'-0" DIA X 10'-0" H, 20,175, LITERS CAPACITY WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 5 HP AGITATOR.
17. PRECIPITATION TANK NO. V-024, 9'-0" DIA X 10'-0" H, 20,175 LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 5 HP AGITATOR.
18. PRECIPITATION TANK NO. V-026, 9'-0" DIA X 10'-0" H, 20,175, LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 5 HP AGITATOR.
19. PRECIPITATION TANK NO. V-027, 9'-0" DIA X 10'-0" H, 20,175, LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 5 HP AGITATOR.
20. PRECIPITATION TANK NO. V-028, 9'-0" DIA X 10'-0" H, 20,175, LITERS CAPACITY, WITH A COOLING GLYCOL/ WATER SOLUTION JACKET AND A 5 HP AGITATOR.
21. BUFFER PREPARATION TANK NO. V-029, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
22. BUFFER PREPARATION TANK NO. V-030, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
23. BUFFER PREPARATION TANK NO. V-031, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
24. BUFFER PREPARATION TANK NO. V-032, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
25. BUFFER PREPARATION TANK NO. V-033, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
26. BUFFER PREPARATION TANK NO. V-034, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
27. BUFFER PREPARATION TANK NO. V-038, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
28. BUFFER PREPARATION TANK NO. V-042, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
29. BUFFER PREPARATION TANK NO. V-044, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
30. BUFFER PREPARATION TANK NO. V-045, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

31. BUFFER PREPARATION TANK NO. V-046, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
32. BUFFER PREPARATION TANK NO. V-047, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
33. BUFFER PREPARATION TANK NO. V-048, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
34. BUFFER PREPARATION TANK NO. V-108, 5'-0" DIA X 6'-0" H, 3,740 LITER CAPACITY, WITH A 1.0 HP AGITATOR AND A 5 HP PUMP.
35. ETHANOL SURGE TANK NO. V-054, 4'-0" DIA X 5'-0" H, 1,975 LITERS CAPACITY, AND A PUMP
36. WASTE ALCOHOL TANK NO. V-054, 5'-0" DIA X 9'-0" H, 5,350 LITERS CAPACITY, WITH A 2 HP AGITATOR AND A 5 HP PUMP.
37. FRACTION II COLLECTION TANK NO. V-087, 2'-3" DIA X 4'-0" H, 490 LITERS CAPACITY, WITH A 5 HP PUMP
38. FRAME AND FILTER PRESS NO. 001, PLATE AND FRAME TYPE, 800 SQUARE FEET SURFACE AREA, WITH A 5 HP PUMP.
39. FRAME AND FILTER PRESS NO. 002, PLATE AND FRAME TYPE, 392 SQUARE FEET SURFACE AREA, WITH A 5 HP PUMP.
40. FRAME AND FILTER PRESS NO. 003, PLATE AND FRAME TYPE, 753 SQUARE FEET SURFACE AREA, WITH A 5 HP PUMP.
41. FRAME AND FILTER PRESS NO. 004, PLATE AND FRAME TYPE, 633 SQUARE FEET SURFACE AREA, WITH A 5 HP PUMP.
42. FRAME AND FILTER PRESS NO. 005, PLATE AND FRAME TYPE, 708 SQUARE FEET SURFACE AREA, WITH A 5 HP PUMP.
43. FRAME AND FILTER PRESS NO. 006, PLATE AND FRAME TYPE, 581 SQUARE FEET SURFACE AREA, WITH AS HP PUMP.
44. FOUR CENTRIFUGES WITH 30 HP DRIVE MOTORS AND FOUR 1.0 HP PUMPS, AND ONE 5 HP PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE MAXIMUM AMOUNT OF PLASMA PROCESSED IN THIS EQUIPMENT SHALL NOT EXCEED 369,000 LITERS TN ANY ONE CALENDAR MONTH.
[RULE 1303(b)(2)-OFFSET]
4. THE AUTOMATIC CLEAN-IN-PLACE (CIP) SHALL BE USED FOR THE CLEANING OF TANKS AND PROCESS LINES, FILTER PRESSES, CLARIFICATION FILTERS, AND TEAR DOWN EQUIPMENT WITHOUT ETHANOL.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
5. A TEMPERATURE GAUGE SHALL BE INSTALLED AND MAINTAINED TO ACCURATELY MEASURE AND INDICATE THE OPERATING TEMPERATURE OF THE FILTER ROOMS AND THE PROCESS TANKS.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
6. OPERATING TEMPERATURE OF THE FILTER ROOMS SHALL BE MAINTAINED AT 40 DEGREES FAHRENHEIT OR LOWER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
7. OPERATING TEMPERATURE OF THE PROCESS TANKS SHALL BE MAINTAINED AT 32 DEGREES FAHRENHEIT OR LOWER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
8. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NUMBER 3 THE RECORDS SHALL BE KEPT IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD UPON REQUEST.
[RULE 3004(a)(4)]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. G18676
A/N 537731

Equipment Description:

SPENT ALCOHOL DISTILLATION SYSTEM CONSISTING OF:

1. DISTILLATION COLUMN C-1, 2'-6" DIA X 32'-3" H, WITH A PACKED SECTION AND SIEVE TRAYS.
2. STILL POT V-1, 6'-6" DIA X 9'-0" L, WITH A STEAM HEATED REBOILER, E-3, A WATER COOLED BOTTOMS COOLER, E-1, AND A BOTTOMS PUMP.
3. MAIN CONDENSER E-2, 1'-4" DIA X 8'-0" L, WATER COOLED.
4. PRIMARY VENT CONDENSER E-4, 0'-7" DIA X 4'-0" L, WATER COOLED.
5. SECONDARY VENT CONDENSER E-6, 0'-4" DIA X 2'-6" H, CHILLED WATER COOLED.
6. DISTILLATE SUBCOOLER E-5, 0'-9" DIA X 9'-0" H, WATER COOLED.
7. SLOP TANK T-5, 2'-6" DIA X 4'-3" H.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 PRIMARY VENT CONDENSER IS VENTED TO THE SECONDARY VENT CONDENSER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
4. A TEMPERATURE GAUGE SHALL BE INSTALLED IN THE CHILLED WATER OUTLET OF THE SECONDARY VENT CONDENSER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
5. THE TEMPERATURE OF THE CHILLED WATER IN THE OUTLET OF THE SECONDARY VENT CONDENSER SHALL BE 55 DEGREES FAHRENHEIT OR LOWER.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO OPERATE

**Permit No. G18678
A/N 537733**

Equipment Description:

HOLDING TANKS T-3A AND T-3B, RECLAIMED ETHANOL, EACH 6'-6" DIA X 13'-0", 2,500 GALLONS CAPACITY WITH ONE TRANSFER PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO THE PRIMARY VENT CONDENSER OF THE SPENT ALCOHOL DISTILLATION SYSTEM.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO OPERATE

**Permit No. G18679
A/N 537734**

Equipment Description:

STORAGE TANK T-1B, SPENT ETHANOL, 12'-0" DIA X 20'-0" H, 15,000 CAPACITY, WITH ONE COMMON TRANSFER PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 IT IS VENTED TO THE PRIMARY VENT CONDENSER OF THE SPENT ALCOHOL DISTILLATION SYSTEM.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO OPERATE

**Permit No. G18680
A/N 537735**

Equipment Description:

STORAGE TANK T-1A, SPENT ETHANOL, 12'-0" DIA X 20'-0" H, 15,000 GALLONS CAPACITY, WITH ONE COMMON TRANSFER PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO THE PRIMARY VENT CONDENSER OF THE SPENT ALCOHOL DISTILLATION SYSTEM.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO OPERATE

**Permit No. G18681
A/N 537736**

Equipment Description:

STORAGE TANK NO. 1, ETHYL ALCOHOL, 10'-0" DIA X 20'-0" H, 15,000 GALLONS CAPACITY, WITH VAPOR RETURN LINE AND PRESSURE RELIEF VALVE.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS TANK SHALL NOT BE FILLED UNLESS THE VENT GAS IS RETURNED TO THE LOADING VESSEL BY VAPOR RETURN LINE.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO OPERATE

**Permit No. G18682
A/N 537737**

Equipment Description:

STORAGE TANK NO. 2, ETHYL ALCOHOL, 10'-0" DIA X 20'-0" H, 15,000 GALLONS CAPACITY, WITH VAPOR RETURN LINE AND PRESSURE RELIEF VALVE.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS TANK SHALL NOT BE FILLED UNLESS THE VENT GAS IS RETURNED TO THE LOADING VESSEL BY VAPOR RETURN LINE.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]

FACILITY PERMIT TO OPERATE BAXTER HEALTHCARE CORP, HYLAND DIVISION

PERMIT TO OPERATE

Permit No. **G18829 TBD**
A/N **538398 555966**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDER, TURBOCHARGED/AFTERCOOLED, MODEL 3516C-DITA, 3622 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 TN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A NON-RESETTABLE TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304, RULE 1470, 40 CFR 60.4214 (b)]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS EN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN ~~50~~ 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1304, RULE 1470, 40 CFR 60.4211 (f)]
5. AN ENGINE OPERATING LOG OF ENGINE OPERATIONS SHALL BE KEPT AND MAINTAINED DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND THE SPECIFIC REASON FOR OPERATION SUCH AS:
 - A. EMERGENCY USE
 - B. MAINTENANCE AND TESTING
 - C. OTHER (BE SPECIFIC)

IN ADDITION, FOR EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF ENGINE OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND THE END OF THE OPERATION.
[RULE 1470, 40 CFR 60.4214 (b)]

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6. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG:
 - A. THE TOTAL HOURS OF ENGINE OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
 - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.
[RULE 1470, 40 CFR 60.4214 (b)]
7. ENGINE OPERATION LOG(S) SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 3004(a)(4)]
8. OPERATION BEYOND THE ~~50~~ 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT: (A) THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME; AND (B) THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
{RULE 1470}
9. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, 1470 AND 40 CFR 60.4207(b).
[RULE 431.2, RULE 1470, 40 CFR 60.4207(b)]

Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

PERMIT TO CONSTRUCT AND OPERATE

**Permit No. TBD
A/N 552408**

Equipment Description:

BOILER, CLEAVER BROOKS, MODEL CBEX-700-900-150S, FIRE-TUBE, WITH A 37.656 MMBTU/HR CLEAVER BROOKS LOW NOX BURNER, NATURAL GAS FIRED, WITH FLUE GAS RECIRCULATION AND OXYGEN TRIM SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE 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 FIRED WITH NATURAL GAS ONLY.
[RULE 1303(a)(1), RULE 1146]
4. A TOTALIZING FUEL FLOW METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE TOTAL VOLUME OF NATURAL GAS SUPPLIED TO THIS BOILER.
[RULE 1146]
5. THE TOTAL NATURAL GAS SUPPLIED TO THIS BOILER SHALL NOT EXCEED 23.562 MMSCF/MONTH.
[RULE 1303(b)(2)]
6. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE A YEAR ACCORDING TO MANUFACTURER'S SPECIFICATIONS TO MAINTAIN REPEATABLE PERFORMANCE.
[RULE 1303(a)(1)]
7. THIS EQUIPMENT SHALL EMIT NO MORE THAN 9 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂.
[RULE 1303(a)(1), RULE 1146]
8. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY COMPLIANCE WITH CONDITION NO. 5, 6 & 7 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE

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PREMISES FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

9. THIS EQUIPMENT SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]
10. A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 7.
[RULE 1146]
11. THE OPERATOR SHALL CONDUCT PERIODIC MONITORING OF NOX EMISSIONS PURSUANT TO THE SCHEDULE IN RULE 1146 WITH A PORTABLE NOX, CO, AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
12. THE OPERATOR SHALL CONDUCT A SOURCE TEST ONCE EVERY THREE YEARS TO VERIFY COMPLIANCE WITH CO EMISSION LIMIT SPECIFIED IN CONDITION NO. 7 OR CONDUCT PERIODIC MONITORING WITH A PORTABLE NOX, CO AND OXYGEN ANALYZER ACCORDING TO THE PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN.
[RULE 1146]
13. AN INITIAL SOURCE TEST SHALL BE CONDUCTED WITHIN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1), RULE 1146]
14. THE SOURCE TEST SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 7.
[RULE 1303(a)(1), RULE 1146]
15. TWO COPIES OF A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
[RULE 1146]
16. THE PROTOCOL SHALL BE APPROVED IN WRITING BY THE DISTRICT BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE COMPLETE FORMS ST-1 AND ST-2 SPECIFYING THE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, THE IDENTITY OF THE TESTING LABORATORY, A STATEMENT FROM THE TESTING LABORATORY CERTIFYING THAT IT MEETS THE CRITERIA IN DISTRICT RULE 304(K), AND A DESCRIPTION OF THE SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
[RULE 1146]
17. SOURCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES. THE SAMPLING TIMES SHALL BE AT LEAST 15 CONSECUTIVE

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MINUTES FOR MAXIMUM AND MINIMUM LOADS AND AT LEAST ONE HOUR FOR NORMAL OPERATING LOAD.

[RULE 1146]

18. WRITTEN CORRESPONDENCE SHALL BE ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) REFERENCING APPLICATION NO. 552408.
[RULE 1146]
 19. WRITTEN NOTICE OF THE SOURCE TEST SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
[RULE 1146]
 20. TWO COMPLETE COPIES OF SOURCE TEST REPORT SHALL BE SUBMITTED TO THE DISTRICT, WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM)
 - II. THE FIRING RATES, IN BTU PER HOUR
 - III. THE EXHAUST TEMPERATURE, IN DEGREE F.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND
 - V. THE FUEL FLOW RATE.[RULE 1146]
 21. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
[RULE 1146]
 22. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1146]
- Periodic Monitoring:**
23. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR EXPEDITIOUS INSPECTION AND REVIEW. THE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.
[RULE 3004(a)(4)]
 24. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO AND NOX EMISSION LIMITS BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND

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RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

Emissions And Requirements:

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

CO: 2000 PPM, RULE 407
CO: 50 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
PM: 0.1 GRAIN/SCF, RULE 409

**FACILITY PERMIT TO OPERATE
BAXTER HEALTHCARE CORP, HYLAND DIVISION**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:
VOC: RULE 1415
VOC: 40 CFR 82 SUBPART F

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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