South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

October 13, 2009

Mr. Gerardo C. Rios
Chief, Permit Office
US EPA Region IX Air 3
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Rios:

Subject: International Rectifier Hexfet America (I.D. 48522) Title V Permit Revision

International Rectifier Hexfet America has proposed to revise their Title V permit by modifying one integrated circuit manufacturing system by the addition of one plasma etcher. This is an integrated circuits manufacturing facility (SIC 3674) located at 41915 Business Park Drive, Temecula, CA 92590. This proposed permit revision is considered as a "minor permit revision" to their Title V permit. Enclosed for your review are the permit evaluation and the proposed permit. With your receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period begins on October 13, 2009.

If you have any questions or need additional information regarding the proposed permit revision, please contact Mr. Kien Huynh at (909) 396-2635.

Sincerely,

Brian L. Yeh
Senior Manager
Chemical/Mechanical Operations

BLY:kh

Enclosures

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	Page	1 of 2
	A/N	502690, et al
ENGINEERING & COMPLIANCE	Processed By	KH
	Checked By	
APPLICATION PROCESSING AND CALCULATIONS	Date	10/12/09

Applicant's Name: International Rectifier

Mailing Address: 41915 Business Park Dr.
Temecula, CA 92590

Equipment Location: Same

Equipment Description:

APPLICATION NO. 502689:

TV Revision.

		A/N	Permit	
APPLICATION NO. 502690:	Previous:	495576	G1984	Modification P/C

ALTERATION TO INTEGRATED CIRCUIT FABRICATION SYSTEM PERMIT TO OPERATE G1984 (A/N 495576) BY:
THE ADDITION OF:
- ONE TEGAL PLASMA ETCHER

		A/N	Permit	
APPLICATION NO. 502691:	Previous:	498038	G4078	Modification P/C

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. FIVE BURN BOXES, GUARDIAN.

2. FIVE DRY SCRUBBERS, EACH NOVAPURE, MODEL 300 SERIES, 2' - 0"W. x 2' - 0"L. x 5' - 6"H., EACH WITH A MAIN CANISTER WITH A MINIMUM OF 32 GALLONS OF RESIN, A BY-PASS CANISTER WITH A MINIMUM OF 0.3 GALLON OF RESIN, EACH VENTING ONE ION IMPLANTER.

3. SCRUBBER, METRON, MODEL VECTOR 6000, 2' - 3"W. x 3' - 0.3"D. x 7' - 1"H. VENTING ONE PECVD FURNACE.

4. SCRUBBER NO. 101, HARRINGTON, MODEL ECH-1L-12-5, HORIZONTAL PACKED BED TYPE, 12' - 6"W. x 21' - 7"L. x 15' - 5"H., WITH A 12' - 0"W. x 11' - 0"H. x 5' - 0"D. BED OF 3 1/2" LANPAC PLASTIC PACKING, A 1 FOOT DEEP SINE-WAVE PLATE TYPE DEMISTER SECTION, TWO 15-HP RECIRCULATION PUMPS, AND ONE 100-HP BLOWER.

5. SCRUBBER NO. 102, HARRINGTON (STANDBY TO SCRUBBER NO. 101), MODEL ECH-1L-12-5, HORIZONTAL PACKED BED TYPE, 12' - 6"W. x 21' - 7"L. x 15' - 5"H., WITH A 12' - 0"W. x 11' - 0"H. x 5' - 0"D. BED OF 3 1/2" LANPAC PLASTIC PACKING, TWO 15-HP RECIRCULATION PUMPS., AND ONE 100-HP BLOWER.

6. EXHAUST SYSTEM VENTING ELEVEN DIFFUSION FURNACES, FOUR PECVD MACHINES, THIRTY-SEVEN GAS CABINET PURGE LINES, FIVE ION IMPLANTERS, THIRTY-SIX PLASMA ETCHERS, EIGHTEEN ETCHERS, TWO WAFER GRINDERS, THREE WASTE ACID STORAGE TANKS, ONE WASTE AMMONIUM HYDROXIDE STORAGE TANK, TWO WAFER ETCHING AND STRIPPING LINES, ONE MAINTENANCE BENCH, THREE ACID WET BENCHES, TWO QUARTZ CLEANING MACHINES, TWO ACID STORAGE CABINETS, ONE DRAG SOLDER MACHINE AND ONE REFLOW OVEN.

HISTORY:

Application(s) received on: 10/9/09

Equipment installed/modified: No

Violations recorded:

1 Notice of Violation has been issued in the last two years. The notice, P53318, was issued on 10/21/08 for five permits units that had exceeded the permitted throughput limits and three permit units that had been modified without a permit. The company had filed applications to correct the violations and the permits were issued on 3/24/09.

	RECLAIM	Title V
Facility type:	No	Yes

Application 502689 was filed for TV revision.

Application 502690 was filed for permit to modify the Integrated Circuit (IC) Manufacturing system with Permit G1984 by adding one plasma etcher to the permit unit. The chemical usage is the same as prior to modification.

Application 502691 was filed for the scrubbers venting the subject IC Manufacturing system. The scrubbers have been operated under existing Permit G4078.

PROCESS DESCRIPTION

The equipment is for semiconductor device manufacturing. The scrubbers are used for PM and arsine control.

CALCULATIONS

Emissions from this permit unit are calculated using material balances and control efficiencies. Since there is no change in the chemical usage and control equipment, there will be no emission increase due the modification. No calculations are necessary and emissions as calculated in A/N 495576 (Previous to A/N 502690) will be used.

The following information is excerpted from A/N 495576:

AEIS:

Operating schedule:	24 hrs/day
	7 days/wk
	52 wks/yr

PM10:

Uncontrolled	0.75 lb/hr
Controlled	0.04 lb/hr

NSR:

Operating schedule:		24 hrs/day
		7 days/wk
		52 wks/yr
PM10		
lb/hr		
	Uncontrolled	0.75 lb/hr
	Controlled	0.04 lb/hr
lb/day		
	Uncontrolled	18 lb/day
	Controlled	0.89 lb/day
lb/yr	Controlled	349.44 lb/yr

RULE EVALUATION

Since the equipment has been operated in compliance and it is determined that the modification will not impact the compliance status, no rule evaluation is needed.

DISCUSSIONS

Based on information submitted with the applications and the above evaluation, it is determined that the equipment will operate in compliance with all the applicable rules and regulations of the District.

RECOMMENDATIONS:

A/N 502689:

Approved TV revision.

A/Ns. 502690-1:

Issue Permits to Construct/Operate subject to the permit conditions as stated in Section D.

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

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
INTERNATIONAL RECTIFIER HEXFET AMERICA

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
134696	M56103	STORAGE TANK MISC INORGANIC ACID
134697	M56104	STORAGE TANK MISC MATERIALS
134698	M56105	STORAGE TANK MISC INORGANIC ACID
134699	M56106	STORAGE TANK MISC INORGANIC ACID
134701	M56108	I C E (>500 HP) EM ELEC GEN DIESEL
134709	M56109	STORAGE TANK MISC MATERIALS
134710	M56110	STORAGE TANK MISC INORGANIC ACID
262744	D89083	ACTIVATED CARBON ADSOBER OTHER
293299	D84484	STORAGE TANK MISC ORGANIC ACID
302031	D90395	STORAGE TANK OTHER W/CTL HYDROGEN FLUORI
302032	F52982	SEMICONDUCTOR, SOLVENT CLEANING (<5 PCS)
381811	F54712	STORAGE TANK ORGANIC CHEMICALS MISC
381813	F54714	TANK, SURFACE PREPARATION – OTHER ACIDS
383504	F54708	TANK, SURFACE PREPARATION – OTHER ACIDS
410529	F58209	I C E (50-500 HP) EM FIRE FGHT – DIESEL
432426	F91809	STORAGE TANK MISC INORGANIC ACID
441482	F93346	BOIILER (5-20 MMBTU/HR) NAT GAS ONLY C/G
442573	F93347	BOIILER (5-20 MMBTU/HR) NAT GAS ONLY C/G
459172	G1986	ACTIVATED CARBON ADSORBER DRUM VENT M.S.
460708	G1987	STORAGE TANK ORGANIC CHEMICALS MISC
460709	G1988	STORAGE TANK MISC INORGANIC ACID
460711	G1989	STORAGE TANK MISC INORGANIC ACID
460712	G1990	STORAGE TANK MISC INORGANIC ACID
460713	G1991	STORAGE TANK MISC INORGANIC ACID
460714	G1992	STORAGE TANK MISC INORGANIC ACID
460715	G1993	STORAGE TANK MISC MATERIALS
460728	G1994	STORAGE TANK MISC INORGANIC ACID
460729	G1995	STORAGE TANK MISC INORGANIC ACID
460730	G1996	STORAGE TANK MISC INORGANIC ACID
460732	G1997	STORAGE TANK MISC INORGANIC ACID
460733	G1998	STORAGE TANK MISC INORGANIC ACID
460735	G2000	STORAGE TANK MISC INORGANIC ACID

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

460744	G2001	STORAGE TANK MISC INORGANIC ACID
460747	G2002	SEMICONDUCTOR, PHOTORESIST (>=5 PIECES)
492804	G1978	WET CHEMICAL AND SOLVENT CLEANING
492807	G1981	AFTERBURNER, DIRECT FLAME
491984	G4083	STORAGE TANK MISC INORGANIC ACID
491985	G4084	STORAGE TANK MISC INORGANIC ACID
498032	G4072	WAFER ETCHING AND STRIPPING LINE
498033	G4073	WAFER ETCHING AND STRIPPING LINE
498034	G4074	SEMICONDUCTOR, INTEGRATED CIRCUIT>=5 PC
498035	G4075	WET CHEMICAL AND SOLVENT CLEANING
498036	G4076	SEMICONDUCTOR, PHOTORESIST (>=5 PIECES)
498037	G4077	SCRUBBER CHEMICAL M.S.
498039	G4079	AFTERBURNER, DIRECT FLAME
498040	G4080	STORAGE TANK MISC INORGANIC ACID
498041	G4081	STORAGE TANK MISC INORGANIC ACID
498761	G4082	STORAGE TANK MISC INORGANIC ACID
502690		SEMICONDUCTOR, INTEGRATED CIRCUIT>=5 PC
502691		SCRUBBER

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

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

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 RINGELMANN 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 TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 1830 POUNDS IN ANY CALENDAR MONTH. TO ENSURE COMPLIANCE WITH THE EMISSION LIMIT OF THIS CONDITION, THE OPERATOR SHALL:

   A. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS IN RULE 109, KEEP ADEQUATE RECORDS FOR ALL EQUIPMENT AND OPERATIONS AT THIS FACILITY TO VERIFY THE DAILY VOC EMISSIONS IN POUNDS AND THE VOC CONTENT OF EACH MATERIAL AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS).

   B. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH MONTH, TOTAL AND RECORD VOC EMISSIONS FOR THE MONTH FROM ALL EQUIPMENT AND OPERATIONS THAT ARE REQUIRED TO HAVE WRITTEN PERMITS OR ARE EXEMPT FROM WRITTEN PERMITS PURSUANT TO RULE 219. THE RECORD SHALL INCLUDE ANY PROCEDURES USED TO ACCOUNT FOR CONTROL DEVICE EFFICIENCIES AND/OR WASTE DISPOSAL. IT SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.

   C. MAINTAIN A SINGLE LIST WHICH INCLUDES ONLY THE NAME AND ADDRESS OF EACH PERSON FROM WHOM THE FACILITY ACQUIRED VOC-CONTAINING MATERIALS REGULATED BY THE DISTRICT THAT WERE USED OR STORED AT THE FACILITY DURING THE PRECEDING 12 MONTHS.

   D. RETAIN ALL PURCHASE INVOICES FOR ALL VOC-CONTAINING MATERIAL USED OR STORED AT THE FACILITY, AND ALL WASTE MANIFESTS FOR ALL WASTE VOC-CONTAINING MATERIAL REMOVED FROM THE FACILITY.

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

3. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED AT THE FACILITY FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.
   [RULE 1303 (b) (2)-OFFSETS]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56103
A/N 134696

Equipment Description:

STORAGE TANK T-175, HYDROGEN FLUORIDE, 4' -6" DIA. x 7' -3" H. 500 GALLON CAPACITY.

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 NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56104
A/N 134697

Equipment Description:

STORAGE TANK T-185, BUFFERED OXIDE ETCH, 4' -6" DIA. x 7' -3" H. 500 GALLON CAPACITY.

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 NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56105
A/N 134698

Equipment Description:

STORAGE TANK T-12, WASTE ACID, 10' -0" DIA. x 11' -6" L., 5728 GALLON CAPACITY, WITH TWO TRANSFER PUMPS EACH 10 H.P.

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 NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56106
A/N 134699

Equipment Description:

STORAGE TANK T-13, WASTE ACID, 10' -0" DIA. x 11'-6" L., 5728 GALLON CAPACITY, WITH TWO TRANSFER PUMPS, EACH 10 H.P.

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 NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56108
A/N 134701

Equipment Description:

INTERNAL COMBUSTION ENGINE, DIESEL FIRED, MITSUBISHI, MODEL S12N-PTA-2, 1450 H.P. DRIVING A 1000 K.W. EMERGENCY ELECTRIC 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. DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL HAVE A SULFUR CONTENT OF LESS THAN 0.05% BY WEIGHT.

   [RULE 431.2]

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

   [RULE 1304 (a) (4)]

5. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.

   [RULE 1304 (a) (4)]

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 AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

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
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56109
A/N 134709

Equipment Description:

MIX TANK 181, BUFFERED OXIDE ETCH, 4' - 6" DIA. X 6' -11" H. 500 GALLON CAPACITY, WITH A 1/2 H.P. MIXER.

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 NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. M56110
A/N 134710

Equipment Description:

MIX TANK 171, HYDROGEN FLUORIDE, 4' -6" DIA. X 6'-10" H. 500 GALLON CAPACITY WITH A 1/2 H.P. MIXER.

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 NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. D89083
A/N 262744

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CARBON ADSORBER, CAMERON-YAKIMA, MODEL TSU 2000, CANISTER TYPE, WITH TWO PARALLEL CANISTERS, EACH WITH 2000 LBS. OF CARBON AND A 4' - 9" BED DEPTH.
2. EXHAUST SYSTEM WITH A 15 HP FAN VENTING TWO WET BENCHES.

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 GUAGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS EACH CARBON BED. WHEN IN OPERATION, THIS PRESSURE DIFFERENTIAL SHALL NOT EXCEED 18 INCHES OF WATER.

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

4. THIS EQUIPMENT SHALL BE OPERATED WITH ONLY ONE CARBON CANISTER IN SERVICE AT ANY ONE TIME.

   [RULE 204]

5. THE HYDROCARBON (VOC) CONCENTRATION IN THE EXHAUST GAS FROM THE CARBON ADSORBER SHALL BE TESTED, BY A GAS DETECTION TUBE MEASUREMENT (DRAGER OR EQUIVALENT) OR OTHER METHOD WITH PRIOR DISTRICT APPROVAL, DAILY FOR THE FIRST 15 DAYS SINCE CARBON REPLACEMENT AND EVERY TWELVE HOURS OF OPERATION THEREAFTER. IF THE RESULTS OF THIS TEST SHOW A VOC CONCENTRATION EXCEEDING 10.0 PPMV (SUBJECT TO REVISION), THE EXHAUST FLOW SHALL BE SHIFTED TO A FRESH CARBON CANISTER IMMEDIATELY.

   [RULE 3004 (a) (4)]

6. THIS EQUIPMENT SHALL OPERATE WITH AN OVERALL VOC CONTROL EFFICIENCY (COLLECTION AND DESTRUCTION) EXCEEDING 95.0% BY WEIGHT.

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

7. RECORDS OF DATES OF CARBON REPLACEMENT, AND DAILY HYDROCARBON MEASUREMENTS SHALL BE MAINTAINED AND RETAINED ON FILE FOR FIVE YEARS. THESE RECORDS SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. D84484
A/N 293299

Equipment Description:

STORAGE TANK T-145, PAD ETCH ACID, 3'-0"DIA. x 6'-5"H., 300 GALLON CAPACITY.

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 TANK SHALL NOT BE USED FOR STORING ORGANIC LIQUID HAVING AN ORGANIC COMPOSITE VAPOR PRESSURE OF 25 mm Hg (0.5 psia) OR GREATER UNDER ACTUAL STORAGE CONDITIONS.

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

4. THROUGHPUT TO THIS TANK SHALL NOT EXCEED 300 GALLONS PER DAY. THROUGHPUT RECORDS SHALL BE MAINTAINED AND RETAINED ON FILE FOR A FIVE YEAR PERIOD, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

5. THIS TANK SHALL NOT BE USED TO STORE ANY COMPOUND CONTAINING A CARCINOGENIC SUBSTANCE AS SPECIFIED IN TABLE I OF RULE 1401.

   [RULE 1401]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. D90395
A/N 302031

Equipment Description:

STORAGE TANK, HYDROFLUORIC ACID, 5000 GALLON CAPACITY, 7'-0"DIA. X 20'-6"L.

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 TANK SHALL NOT BE USED FOR STORING HYDROFLUORIC ACID HAVING A CONCENTRATION EXCEEDING 50 PERCENT, BY WEIGHT.

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

4. THIS EQUIPMENT SHALL NOT STORE LIQUID UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT OR A PERMIT TO CONSTRUCT BY THE DISTRICT.

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

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F52982
A/N 302032

Equipment Description:

SOLVENT BENCH, SEMIFAB, MODEL WPS600, 3'-0"W. X 8'-0"L. X 5'- 7"H., 1.8 KVA.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE TOTAL AMOUNT OF VOLATILE ORGANIC COUMPOUND (VOC) EMISSION FROM THIS FACILITY SHALL NOT EXCEED 1,830 POUNDS IN ANY ONE CALENDAR MONTH. THE AMOUNT OF VOC EMISSION FROM THIS EQUIPMENT SHALL BE THE TOTAL AMOUNT OF SOLVENT USED IN THIS EQUIPMENT, EXCLUDING SALVAGE SOLVENT, DISCOUNTED BY THE NON-VOLATILE PORTION OF THE SOLVENT, AND THEN DISCOUNTED BY 98.7% (THE CONTROL EFFICIENCY OF THE CONTROL SYSTEM VENTING THIS EQUIPMENT).

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

5. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F54712
A/N 381811

Equipment Description:

STORAGE TANK, WASTE SOLVENT, 8'-0" W. X 15'-6" L. X 7'-0" H., 5000 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF WASTE SOLVENT TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 5000 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F54714
A/N 381813

Equipment Description:

MIX TANK T-161, MIXED ACID ETCH, 4'-6" DIA. X 5'-6" H., 500 GALLON CAPACITY, WITH A 1/2-HP MIXER.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 917 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F54708
A/N 383504

Equipment Description:

HOLD TANK T-165, MIXED ACID ETCH, 4'-6" DIA. X 5'-6" H., 500 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 917 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F58209
A/N 410529

Equipment Description:

INTERNAL COMBUSTION ENGINE, CLARK MODEL JW6H-UF3O (JOHN DEERE JDFD-06WA) TURBOCHARGED/AFTERCOOLED, 6 CYLINDERS, 265 HP, DIESEL-FUELED, WITH A 300 GALLON DIESEL FUEL TANK, 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. THIS EQUIPMENT SHALL OPERATE IN COMPLIANCE WITH RULE 431.2.

   [RULE 431.2]

4. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 9 DEGREES RETARDED RELATIVE TO STANDARD TIMING.

   [RULE 1303 (a) (1)-BACT]

5. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE CALENDAR YEAR.

   [RULE 1304 (a) (4)]

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

   [RULE 1304 (a) (4)]

7. THIS ENGINE SHALL BE OPERATED ONLY DURING EMERGENCIES OR FOR MAINTENANCE AND TESTING PURPOSES.

   [RULE 1304 (a) (4)]

8. 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 AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F91809
A/N 432426

Equipment Description:

WASTE ACID NEUTRALIZATION LINE CONSISTING OF:

1. TANK NO. T-16, ACID NEUTRALIZATION, 10' - 0"DIA. x 11' - 6"H., 5,728 GALLON CAPACITY, WITH ONE 3-HP MIXER.
2. TANK NO. T-17, ACID NEUTRALIZATION/EQUALIZATION, 10' - 0"DIA. x 11' - 6"H., 5,728 GALLON CAPACITY, WITH ONE 3-HP MIXER.
3. TANK NO. T-301, ACID NEUTRALIZATION, 7' - 0"DIA. x 9' - 0"H., 2,600 GALLON CAPACITY, WITH ONE 3-HP MIXER.
4. TANK NO. T-302, ACID NEUTRALIZATION, 7' - 0"DIA. x 9' - 0"H., 2,600 GALLON CAPACITY, WITH ONE 3-HP MIXER.
5. TANK NO. T-303, ACID NEUTRALIZATION/STORAGE, 6' - 6"DIA. x 9' - 0"H., 2,200 GALLON CAPACITY, WITH TWO 10-HP TRANFER PUMPS, ONE A STANDBY.

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 ONLY TO AIR POLLUTION EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT/OPERATE BY THE EXECUTIVE OFFICER.

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

4. A NON-RESETTABLE FLOW METER SHALL BE INSTALLED TO INDICATE THE AMOUNT OF WASTE WATER, IN GALLONS, PUMPED OUT OF THIS EQUIPMENT.

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

5. THE AMOUNT OF WASTE WATER PUMPED OUT OF THIS EQUIPMENT SHALL NOT EXCEED 4,000,000 GALLONS IN ANY ONE CALENDAR MONTH.

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

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6. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 5. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. F93346
A/N 441482

Equipment Description:

BOILER NO. 2, STONE-JOHNSTON, FIRE TUBE TYPE, MODEL PFTA 300 4LG 30W, 13,230,000 BTU PER HOUR, NATURAL GAS- FIRED, WITH ONE INDUSTRIAL COMBUSTION, MODEL NTD126NGX-09S-5P, BURNER.

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 NOX AND CO CONCENTRATIONS, IN PARTS PER MILLION BY VOLUME (PPMV), ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANTS	PPMV
NOX	12
CO	50

   [RULE 1303 (a) (1)-BACT]

4. THE BOILER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE EVERY SIX MONTHS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RANGE. NOX, O2, AND CO SHALL BE MEASURED AND RECORDED ALONG WITH THE TUNE-UP PROCEDURES.

   [RULE 1303 (a) (1)-BACT]

5. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 3 AND 4. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

Periodic Monitoring:

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE

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ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a) (4)]

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. 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:

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

PM: 0.1 GR/SCF, RULE 409
CO: 2000 PPMV, RULE 407
CO: 400 PPMV, RULE 1146
NOX: 30 PPMV, RULE 1146

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PERMIT TO OPERATE

Permit No. F93347
A/N 442573

Equipment Description:

BOILER NO. 1, STONE-JOHNSTON, FIRE TUBE TYPE, MODEL PFTA 300 4LG 30W, 13,230,000 BTU PER HOUR, NATURAL GAS- FIRED, WITH ONE INDUSTRIAL COMBUSTION, MODEL NTD126NGX-09S-5P, BURNER.

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 NOX AND CO CONCENTRATIONS, IN PARTS PER MILLION BY VOLUME (PPMV), ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANTS	PPMV
NOX	12
CO	50

   [RULE 1303 (a) (1)-BACT]

4. THE BOILER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE EVERY SIX MONTHS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RANGE. NOX, O2, AND CO SHALL BE MEASURED AND RECORDED ALONG WITH THE TUNE-UP PROCEDURES.

   [RULE 1303 (a) (1)-BACT]

5. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 3 AND 4. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

Periodic Monitoring:

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE

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ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a) (4)]

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. 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:

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

PM: 0.1 GR/SCF, RULE 409
CO: 2000 PPMV, RULE 407
CO: 400 PPMV, RULE 1146
NOX: 30 PPMV, RULE 1146

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PERMIT TO OPERATE

Permit No. G1986
A/N 459172

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. ADSORBER, CAMERON-YAKIMA MODEL RADIAL 1600, CANISTER TYPE, CONSISTING OF THREE PARALLEL TRAINS (ONE STANDBY), EACH TRAIN WITH THREE CANISTERS IN SERIES, EACH CANISTER WITH 1,430 POUNDS OF ACTIVATED CARBON.
2. EXHAUST SYSTEM WITH ONE 50-HP BLOWER VENTING TWENTY-TWO PHOTOLITHOGRAPHIC TRACKS, TWO SOLVENT BENCHES, AND ONE WASTE SOLVENT STORAGE TANK.

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. VOC CONCENTRATIONS AT THE OUTLETS OF THE SECONDARY ADSORBERS SHALL BE MEASURED, BY A DISTRICT APPROVED ANALYZER, AND RECORDED AT LEAST ONCE IN ANY OPERATING DAY.

   [1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS, RULE 3004 (a) (4)]

4. WHENEVER THE VOC CONCENTRATION AT THE OUTLET OF THE SECONDARY ADSORBER OF THE OPERATING TRAIN IS GREATER THAN 10 PPMV AS METHANE, THAT TRAIN SHALL BE SHUT DOWN IMMEDIATELY AND ADSORBENT IN ALL THREE ADSORBERS IN THAT TRAIN SHALL BE REPLACED WITH FRESH ADSORBENT BEFORE IT IS PLACED INTO SERVICE AGAIN.

   [1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]

5. RECORDS SHALL BE KEPT TO PROVE COMPLIANCE WITH CONDITION NOS. 3 AND 4. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 1303 (a) (1)-BACT, RULE 1303 (b) (2)-OFFSETS]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1987
A/N 460708

Equipment Description:

STORAGE TANK T-928, WASTE SOLVENTS, 7' - 8"DIA. x 14' - 6.5"L., 4,500 GALLON CAPACITY.

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 MAXIMUM AMOUNT OF WASTE SOLVENT TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 3,900 GALLONS IN ANY ONE CALENDAR MONTH.

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

4. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT CRESOL, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 3 AND 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1988
A/N 460709

Equipment Description:

STORAGE TANK T-408, SCALE INHIBITOR, 2' - 0"DIA. x 2' - 6"H., 50 GALLON CAPACITY.

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 MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 150 GALLONS IN ANY ONE CALENDAR MONTH.

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

4. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT HYDROGEN CHLORIDE, SULFURIC ACID AND PHOSPHORIC ACID SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 3 AND 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1989
A/N 460711

Equipment Description:

STORAGE TANK T-511, WASTE ACIDS, 1' - 8"W. x 3' - 0.5"L. x 1' - 8"H., 50 GALLON CAPACITY.

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 MAXIMUM AMOUNT OF WASTE ACIDS TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 45,000 GALLONS IN ANY ONE CALENDAR MONTH.

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

4. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT HYDROGEN CHLORIDE, NITRIC ACID, PHOPHORIC ACID, SULFURIC ACID AND HYDROGEN FLUORIDE, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 3 AND 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1990
A/N 460712

Equipment Description:

STORAGE TANK T-501, WASTE SULFURIC ACID, 4' - 3"W. x 7' - 8"L. x 2' - 0"H., 375 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF WASTE SULFURIC ACID TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 670,000 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1991
A/N 460713

Equipment Description:

STORAGE TANK T-502, WASTE ACIDS, 4' - 3"W. x 7' - 8"L. x 2' - 0"H., 375 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF WASTE ACIDS TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 670,000 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT HYDROGEN CHLORIDE, NITRIC ACID, PHOPHORIC ACID, SULFURIC ACID AND HYDROGEN FLUORIDE, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1992
A/N 460714

Equipment Description:

STORAGE TANK T-503, WASTE ACIDS, 4' - 0"W. x 6' - 5"L. x 2' - 0"H., 375 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF WASTE ACIDS TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 670,000 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT HYDROGEN CHLORIDE, NITRIC ACID, PHOPHORIC ACID, SULFURIC ACID AND HYDROGEN FLUORIDE, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. HE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1993
A/N 460715

Equipment Description:

STORAGE TANK T-504, WASTE AMMONIUM HYDROXIDE, 4' - 2"W. x 7' - 4.5"L. x 1' - 10"H., 375 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF WASTE AMMONIUM HYDROXIDE TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 120,450 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1994
A/N 460728

Equipment Description:

STORAGE TANK T-141, ALUMINUM ETCH, 7' - 0"DIA. x 20' - 6"L., 5,000 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 8,648 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT NITRIC ACID AND PHOSPHORIC ACID, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1995
A/N 460729

Equipment Description:

MIXING TANK T-151, POLY ETCH, 4' - 6"DIA. x 5' - 6"H., 500 GALLON CAPACITY, WITH ONE 0.43 HP MIXER.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 11,348 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT NITRIC ACID, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1996
A/N 460730

Equipment Description:

HOLDING TANK T-155, POLY ETCH, 4' - 6"DIA. x 5' - 6"H., 500 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 11,348 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT NITRIC ACID, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1997
A/N 460732

Equipment Description:

MIXING TANK T-191, ALUMINUM ETCH, 4' - 6"DIA. x 5' - 6"H., 500 GALLON CAPACITY, WITH ONE 0.43 HP MIXER.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 6,244 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT NITRIC ACID AND PHOSPHORIC ACID, SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G1998
A/N 460733

Equipment Description:

HOLDING TANK T-195, ALUMINUM ETCH, 4' - 6"DIA. x 5' - 6"H., 500 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. THE MAXIMUM AMOUNT OF MATERIAL TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 6,244 GALLONS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS CONTAINING ANY TOXIC AIR CONTAMINANTS SPECIFIED IN RULE 1401 AMENDED MAY 2, 2005, EXCEPT NITRIC ACID, AMMONIA AND PHOSPHORIC ACID SHALL NOT BE STORED IN THIS EQUIPMENT.

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G2000
A/N 460735

Equipment Description:

HOLDING TANK T-405, WASTE SULFURIC ACID, 2' - 6"DIA. x 4' - 0"H., 140 GALLON CAPACITY.

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 RECEIVE MORE THAN 126,900 GALLONS OF WASTE SULFURIC ACID IN ANY ONE CALENDAR MONTH.

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

4. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G2001
A/N 460744

Equipment Description:

HOLDING TANK T-406, WASTE SULFURIC ACID, 2' - 7"DIA. x 2' - 9"H., 100 GALLON CAPACITY.

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 RECEIVE MORE THAN 93,132 GALLONS OF WASTE SULFURIC ACID IN ANY ONE CALENDAR MONTH.

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

4. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G2002
A/N 460747

Equipment Description:

PHOTOLITHOGRAPHIC SYSTEM CONSISTING OF:
1. PHOTOLITHOGRAPHIC TRACK, SVG, MODEL 86 SERIES, 4' - 2"W. x 6' - 4"L. x 3' - 4"H., 21.6 KVA.
2. TWENTY-ONE PHOTOLITHOGRAPHIC TRACKS, SVG, MODEL 88 SERIES, 4' - 2"W. x 9' - 0"L. x 3' - 4"H., 21.6 KVA.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1164]

4. VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED AND RECORDED. THE VOC EMISSIONS SHALL BE THE TOTAL AMOUNT OF PHOTORESIST USED IN THIS EQUIPMENT, EXCLUDING SALVAGE PHOTORESIST, DISCOUNTED BY THE NON-VOLATILE PORTION OF THE PHOTORESIST, AND THEN DISCOUNTED BY 98.7% (THE CONTROL EFFICIENCY OF THE CONTROL SYSTEM VENTING THIS EQUIPMENT).

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

5. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO CONSTRUCT/OPERATE

Permit No. G1978
A/N 492804

Equipment Description:

WET CHEMICAL PROCESSING AND SOLVENT CLEANING SYSTEM CONSISTING OF:

1. THIRTEEN ACID ETCH/CLEAN MACHINES, FSI, MODEL MERCURY, EACH 3' - 4"W. x 2' - 5"L. x 5' - 7"H., 4.4 KVA ELECTRICALLY POWERED.
2. TWO ACID ETCHERS, SEZ, MODEL SP203, EACH 3' - 4"W. x 2' - 5"L. x 5' - 7"H., EACH 4.4 KVA ELECTRICALLY POWERED.
3. TWO QUARTZ CLEANING MACHINES, POLY FLOW, EACH 2' - 8"W. x 10' - 11"L. x 4' - 6"H., EACH 1.75 KVA ELECTRICALLY POWERED.
4. ACID WET BENCH, ULTRAFAB, 3' - 0"W. x 8' - 0"L. x 5' - 6"H., 1.8 KVA ELECTRICALLY POWERED.
5. SOURCE CLEANING BENCH, SPEC, MODEL SPH-30SST, 2' - 6"W. x 6' - 0"L. x 6' - 6"H., 1.8 KVA ELECTRICALLY POWERED.
6. MAINTENANCE BENCH, SPEC, MODEL HAC968020W, 2' - 6"W. x 3' - 0"L. x 6' - 4"H., 1.8 KVA ELECTRICALLY POWERED.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

4. VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED AND RECORDED. THE VOC EMISSIONS SHALL BE THE TOTAL AMOUNT OF SOLVENT USED IN THIS EQUIPMENT, EXCLUDING SALVAGE SOLVENT, AND IF VENTING TO A VOC CONTROL SYSTEM, DISCOUNTED BY 98.7% (THE CONTROL EFFICIENCY OF THE VOC CONTROL SYSTEM VENTING THIS EQUIPMENT).

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

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

5. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO CONSTRUCT/OPERATE

Permit No. G1981
A/N 492807

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. WASTE GAS BLOWER.
2. THERMAL OXIDIZER, MCGILL, MODEL V-100, HORIZONTAL CYLINDRICAL TYPE, WASTE GAS/NATURAL GAS DIRECT FIRED, 5' - 0"DIA. x 10' - 0"L. (COMBUSTION CHAMBER), 5,000,000 BTU PER HOUR.
3. PREHEAT EXCHANGER, E-101, ECLIPSE, PLATE TYPE.
4. EXHAUST SYSTEM WITH ONE 15-HP BLOWER VENTING FOURTEEN PHOTOTRACKS AND ONE SOLVENT BENCH.

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 TEMPERATURE INDICATOR SHALL BE INSTALLED TO MEASURE THE COMBUSTION CHAMBER TEMPERATURE.

   [RULE 1303 (a) (1)-BACT]

4. A TEMPERATURE OF NOT LESS THAN 1400°F SHALL BE MAINTAINED IN THE COMBUSTION CHAMBER WHEN THE EQUIPMENT IT SERVES IS IN OPERATION EXCLUDING A STARTUP PERIOD NOT TO EXCEED 30 MINUTES.

   [RULE 1303 (a) (1)-BACT]

5. THE OVERALL VOC CONTROL EFFICIENCY (COLLECTION AND DESTRUCTION) OF THIS EQUIPMENT SHALL NOT BE LESS THAN 95.0%.

   [RULE 1303 (b) (2)-OFFSETS, RULE 1164]

6. A NON-RESETTABLE FUEL FLOWMETER, INDICATING CUBIC FEET, SHALL BE INSTALLED IN THE NATURAL GAS SUPPLY LINE TO THIS EQUIPMENT.

   [RULE 1303 (b) (2)-OFFSETS; RULE 1401]

7. THE TOTAL QUANTITY OF NATURAL GAS CONSUMED IN THIS OXIDIZER AND JOHN ZINK OXIDIZER SHALL NOT EXCEED 3,428,570 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.

   [RULE 1303 (b) (2)-OFFSETS; RULE 1401]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

8. THIS AIR POLLUTION CONTROL (APC) SYSTEM SHALL NOT BE USED TO VENT ANY EQUIPMENT THAT IS USING HALOGENATED HYDROCARBONS.

   [RULE 401]

9. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4, 5 7, AND 8. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

Periodic Monitoring:

10. THE OPERATOR SHALL INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE TEMPERATURE OF THE COMBUSTION CHAMBER.

    [RULE 3004 (a) (4)]

Emissions And Requirements:

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

    CO: 2000 PPMV, RULE 407
    PM: 0.1 GR/SCF, RULE 409
    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G4083
A/N 491984

Equipment Description:

STORAGE TANK T-506, WASTE WATER, 4' - 0"W. x 7' - 3"L. x 1' - 11"H., 375 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

4. THIS EQUIPMENT SHALL NOT RECEIVE MORE THAN 1,839,600 GALLONS OF WASTE WATER IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR AMMONIA (CAS # 7664-41-7), SULFURIC ACID (CAS # 7664-93-9), HYDROCHLORIC ACID (CAS # 7647-01-0), NITRIC ACID (CAS # 7697-37-2), PHOSPHORIC ACID (CAS # 7664-38-2), AND HYDROFLUORIC ACID (CAS # 7664-39-3).

   [RULE 1401]

6. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G4084
A/N 491985

Equipment Description:

STORAGE TANK T-517, WASTE ACIDS, 4' - 0"DIA. x 5' - 7"L., 500 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

4. THIS EQUIPMENT SHALL NOT RECEIVE MORE THAN 19,923 GALLONS OF WASTE WATER IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR NITRIC ACID (CAS # 7697-37-2) AND HYDROFLUORIC ACID (CAS # 7664-39-3).

   [RULE 1401]

6. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
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PERMIT TO CONSTRUCT/OPERATE

Permit No. G4072
A/N 498032

Equipment Description:

WAFER ETCHING AND STRIPPING LINE NO. 2, AKRION GAMA SERIES, CONSISTING OF:

1. TANK NO. 1, ETCHING/MILLING, AMMONIUM HYDROXIDE/HYDROGEN PEROXIDE, 0' - 10.82"W. x 1' - 4.38"L. x 0' - 7.15"H., WITH ONE 400-W MEGASONIC CLEANER, AND ONE 3-KW HEATER.
2. TANK NO. 3, HYDROGEN FLUORIDE, 0' - 11.38"W. x 1' - 4.38"L. x 0' - 11.2"H. (INSIDE DIMENSIONS), WITH ONE 8-KW HEATER.
3. TANK NO. 4, STRIPPING, HYDROGEN CHLORIDE, 0' - 9.5"W. x 1' - 4.37"L. x 0' - 11.13"H., UNHEATED.
4. TANK NO. 5, RINSING/DRYING, DEIONIZED WATER WITH ISOPROPYL ALCOHOL, 0' - 10"W. x 1' - 5"L. x 0' - 10"H., UNHEATED.
5. ASSOCIATED RINSE TANKS.

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 TANKS 1, 3, 4, AND 5 ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT.
   [RULE 1303 (a) (1)-BACT]

4. THE TOTAL AMOUNT OF ISOPROPYL ALCOHOL USED IN THIS EQUIPMENT SHALL NOT EXCEED 10 GALLONS IN ANY ONE CALENDAR MONTH.
   [RULE 1303 (b) (2)-OFFSETS]

5. VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED AND RECORDED. THE VOC EMISSIONS SHALL BE THE TOTAL AMOUNT OF ISOPROPYL ALCOHOL USED IN THIS EQUIPMENT DISCOUNTED BY 98.7%.
   [RULE 1303 (b) (2)-OFFSETS]

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6. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 4 AND 5. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303 (b) (2)-OFFSETS, RULE 1401]

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INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G4073
A/N 498033

Equipment Description:

WAFER ETCHING AND STRIPPING LINE NO. 1, AKRION GAMA SERIES, CONSISTING OF:

1. TANK NO. 1, ETCHING/MILLING, HYDROGEN FLUORIDE/AMMONIUM FLUORIDE, 0' - 9.5"W. x 1' - 4.5"L. x 0' - 11.5"H., WITH ONE 3-KW HEATER.
2. TANK NO. 4, STRIPPING, SULFURIC ACID/HYDROGEN PEROXIDE, 0' - 9.5"W. x 1' - 4.5"L. x 0' - 11.5"H., WITH ONE 8-KW HEATER.
3. TANK NO. 6, RINSING/DRYING, DEIONIZED WATER WITH ISOPROPYL ALCOHOL, 0' - 9.5"W. x 1' - 4.5"L. x 0' - 11.5"H., WITH ONE 3-KW HEATER.
4. ASSOCIATED RINSE TANKS.

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 TANKS 1 AND 4 ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT.
[RULE 1303 (a) (1)-BACT]

4. THE TOTAL AMOUNT OF ISOPROPYL ALCOHOL USED IN THIS EQUIPMENT SHALL NOT EXCEED 10 GALLONS IN ANY ONE CALENDAR MONTH.
[RULE 1303 (b) (2)-OFFSETS]

5. VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED AND RECORDED. THE VOC EMISSIONS SHALL BE THE TOTAL AMOUNT OF ISOPROPYL ALCOHOL USED IN THIS EQUIPMENT.
[RULE 1303 (b) (2)-OFFSETS]

6. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 4 AND 5. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303 (b) (2)-OFFSETS, RULE 1401]

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G4074
A/N 498034

Equipment Description:

INTEGRATED CIRCUIT FABRICATION SYSTEM CONSISTING OF:

1. ATMOSPHERIC DIFFUSION FURNACE, BTU/BRUCE, MODEL BDF-4, 5' - 3"W. x 19' - 8"L. x 8' - 8"H., EACH 12 KVA, AND ONE VACUUM PUMP.
2. HORIZONTAL DIFFUSION FURNACE, BTI, MODEL BDF41, 5' - 4"W. x 23' - 1"L. x 9' - 2"H., 168 KVA, WITH ONE ATMOSPHERIC TUBE, TWO NITRIDE TUBES, AND ONE LTO TUBE, EACH NITRIDE AND LTO TUBE WITH ONE FILTER TRAP, MASS-VAC, MODEL 355080, CONSISTING OF SIX STAINLESS STEEL GAUZE FILTERS AND SIX POLYPRO 2 MICRON FILTERS, AND ONE VACUUM PUMP.
3. ATMOSPHERIC HORIZONTAL DIFFUSION FURNACE, BTI, MODEL BDF41, 5' - 4"W. x 23' - 1"L. x 9' - 2"H., 168 KVA, AND ONE VACUUM PUMP (OPTIONAL).
4. TWO ION IMPLANTERS, APPLIED MATERIALS, MODEL 9500, 17' - 0"W. x 11' - 8"L. x 7' - 11"H., EACH 65 KVA ELECTRICALLY POWERED, EACH WITH ONE 4 HP VACUUM PUMP AND ONE 2 HP VACUUM PUMP.
5. ION IMPLANTER, ULVAC, MODEL IW-630, 8' - 9"W. x 21' - 4"L. x 9' - 2"H. WITH ONE 4 HP VACUUM PUMP.
6. THREE PLASMA ETCHERS, APPLIED MATERIALS, MODEL P5000, 6' - 6"W. x 6' - 4"L. x 7' - 8"H., EACH 64.7 KVA ELECTRICALLY POWERED, EACH WITH FOUR 2.5 HP VACUUM PUMPS.
7. PLASMA ETCHER, LAM, MODEL 9400 ALLIANCE, 11' - 0"W. x 7' - 10"L. x 6' - 9"H., 143.9 KVA ELECTRICALLY POWERED, WITH THREE 4 HP VACUUM PUMPS (TWO ARE OPTIONAL), AND TWO 2 HP VACUUM PUMPS.
8. PLASMA ETCHER, GASONICS, MODEL AE2001, 2' - 8"W. x 3' - 1"L. x 4' - 7"H., 9 KVA ELECTRICALLY POWERED, WITH ONE 5-HP VACUUM PUMP.
9. PLASMA ETCHER, APPLIED MATERIALS, MODEL CENTURA, 7' - 5"W. x 3' - 1"L. x 4' - 7"H., EACH 144 KVA ELECTRICALLY POWERED, WITH THREE 2.5-HP VACUUM PUMPS (TWO OPTIONAL).
10. ETCHER, NOVELLUS, MODEL PEP3510A, 4' - 0"W. x 5' - 3"L. x 7' - 11"H., 54 KVA ELECTRICALLY POWERED WITH TWO 5 HP VACUUM PUMPS (ONE OPTIONAL).
11. PLASMA ETCHER, GASONICS, MODEL L3510, 2' - 6"W. x 3' - 2"L. x 4' - 10"H., 14 KVA ELECTRICALLY POWERED, WITH ONE 5-HP VACUUM PUMP.
12. PECVD MACHINE, APPLIED MATERIALS, MODEL P5000 (DXZ OPTIMA), 6' - 4"W. x 6' - 6"L. x 7' - 8"H., 64.7 KVA ELECTRICALLY POWERED , WITH ONE FILTER TRAP, MASS-VAC, MODEL 355050, CONSISTING OF FIVE STAINLESS STEEL GAUZE FILTERS AND FIVE POLYPRO 2 MICRON FILTERS, FOUR 2.5-HP VACUUM PUMPS.

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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 THREE DIFFUSION FURNACES, EIGHT PLASMA ETCHERS, ONE PECVD MACHINE, AND THREE ION IMPLANTERS ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER:
   [RULE 1303 (b) (2)-OFFSETS]

4. ARSINE SHALL ONLY BE USED IN TWO ION IMPLANTERS VENTED BY NOVAPURE DRY SCRUBBERS.
   [RULE 1401]

5. THE FLOW RATE OF ARSINE TO EACH OF THE TWO ION IMPLANTERS SHALL NOT EXCEED 0.0256 LITER PER MINUTE.
   [RULE 1401]

6. THE AMOUNTS OF MATERIALS USED IN THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING IN ANY ONE CALENDAR MONTH:

MATERIALS	LIMITS, LBS
PH_3	3
SiH_4	32
SiH_2Cl_2	10
BF_3	2
CHF_3	8
CF_4	10
Cl_2	40
SF_6	20
HBr	22
$POCl_3$	8
CH_3CCl_3	45
NF_3	12
BCl_3	4
C_2F_6	30
TEOS	3,100
NH_3	2

7. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 5 AND 6. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
   [RULE 1401]

FACILITY PERMIT TO OPERATE
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PERMIT TO CONSTRUCT/OPERATE

Permit No. G4075
A/N 498035

Equipment Description:

WET CHEMICAL/SOLVENT CLEANING SYSTEM CONSISTING OF:

1. ACID ETCH/CLEAN MACHINE, FSI, MODEL SATURN &ZEUS, 3' - 4"W. x 2' - 5"L. x 5' - 7"H., 1.7 KVA ELECTRICALLY POWERED.
2. ACID WET BENCH, SEMIFAB, MODEL WPS800, 3' - 0"W. x 8' - 0"L. x 5' - 8"H., 1.7 KVA ELECTRICALLY POWERED.
3. SOLVENT BENCH, SEMIFAB, MODEL WPS 600, 2' - 10"W. x 5' - 11"L. x 5' - 8"H.
4. ACID WET BENCH, LUNAIRE, FH-96PP, SERIAL NO. L-1561, 2' - 9"W. x 5' - 0"L. x 6' - 0"H., 0.3 KW.
5. TWO WET PROCESS STATIONS, SPEC, MODEL SBXAT5-80, EACH 9' - 0"W. x 5' - 0"L. x 6' - 8"H., EACH WITH ONE 6-KW HEATER AND ONE 3-KW HEATER.
6. WET PROCESS STATION, SPEC, MODEL SBXAT5-80, 9' - 0"W. x 5' - 0"L. x 6' - 8"H.WITH TWO 3-KW HEATERS.
7. ACID ETCH/CLEAN MACHINE, FSI, MODEL MERCURY, 3' - 4"W. x 2' - 5"L. x 5' - 7"H., 4.4 KVA ELECTRICALLY POWERED.
8. WET PROCESS STATION, SPEC, MODEL SBXAT5-80, 9' - 0"W. x 5' - 0"L. x 6' - 8"H., WITH TWO 3-KW HEATERS.
9. WET NITRIDE ETCH BENCH, SUBMICRON SYSTEMS, 0' - 10.5"W. x 1' - 5"L. x 1' - 0"H. (INSIDE DIMENSIONS).

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 TWO ACID ETCH/CLEAN MACHINES, TWO ACID WET BENCHES, ONE SOLVENT BENCH, THREE WET PROCESS STATIONSS, AND ONE WET NITRIDE ETCH BENCH ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.

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

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4. VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED AND RECORDED. THE VOC EMISSION SHALL BE THE TOTAL AMOUNT OF SOLVENT USED IN THIS EQUIPMENT, EXCLUDING SALVAGE SOLVENT, DISCOUNTED BY 95% IF THE EQUIPMENT VENTS TO MCGILL OXIDIZER, OR 98.7% IF THE EQUIPMENT VENTS TO JOHN ZINK OXIDIZER.

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

5. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

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

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO CONSTRUCT/OPERATE

Permit No. G4076
A/N 498036

Equipment Description:

PHOTOLITHOGRAPHIC SYSTEM CONSISTING OF:

1. TWO PHOTOLITHOGRAPHIC TRACKS, SVG, MODEL 86 SERIES, EACH 4' - 2"W. x 9' - 0"L. x 3' - 4"H., AND EACH 12.5 KVA.
2. TWO PHOTOLITHOGRAPHIC TRACKS, DNS, MODEL 80B, EACH 4' - 8"W. x 13' - 2"L. x 5' - 9"H., AND EACH 40.1 KVA.
3. PHOTORESIST MACHINE, STRIPPING, RHETECH, MODEL CLASS 1, 3' - 6"W. x 6' - 6"L. x 5' - 3"H., 12.5 KVA.
4. PHOTORESIST MACHINE, STRIPPING, RHETECH, MODEL SST-260, 2' - 8"W. x 7' - 0"L. x 5' - 0"H., 18 KVA ELECTRICALLY POWERED.

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 FOUR PHOTOLITHOGRAPHIC TRACKS AND TWO PHOTORESIST MACHINES ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1164]

4. VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED AND RECORDED. THE VOC EMISSIONS SHALL BE THE TOTAL AMOUNT OF SOLVENT AND PHOTORESIST USED IN THIS EQUIPMENT, EXCLUDING SALVAGE SOLVENT AND PHOTORESIST, DISCOUNTED BY THE NON-VOLATILE PORTION OF THE PHOTORESIST, AND THEN DISCOUNTED BY 95% IF THE EQUIPMENT VENTS TO MCGILL OXIDIZER, OR 98.7% IF THE EQUIPMENT VENTS TO JOHN ZINK OXIDIZER.

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

5. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 4. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
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PERMIT TO CONSTRUCT/OPERATE

Permit No. G4077
A/N 498037

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. THREE BURN BOXES, METRON, MODEL GUARDIAN GS8, EACH 1' - 9"W. x 6' - 4"L. x 4' - 10.2"H. WITH ONE HYDROGEN-FIRED BURNER, 17,496 BTU PER HOUR.
2. DRY SCRUBBER, NOVAPURE, MODEL 400 SERIES, 2' - 0"W. x 4' - 0"L. x 5' - 10"H., DUAL CANISTER CONFIGURATION TYPE (ONE STANDBY), EACH CANISTER WITH A MINIMUM OF 37 GALLONS OF RESIN, VENTING ONE ION IMPLANTER.
3. DRY SCRUBBER, NOVAPURE, MODEL 300 SERIES, 2' - 0"W. x 2' - 0"L. x 5' - 6"H., WITH 32 GALLONS OF RESIN, AND A BY-PASS CANISTER WITH A MINIMUM OF 0.3 GALLON OF RESIN, VENTING ONE ION IMPLANTER.
4. SCRUBBER NO. 1, HARRINGTON, MODEL ECH 99-4TP, HORIZONTAL PACKED TYPE, 4' - 5"W. x 9' - 0"L. x 9' - 0"H., WITH 9 FEET OF NO. 2 JAEGER TRI-PACKS PACKING, A MIST ELIMINATOR, AND TWO 10-HP RECIRCULATION PUMPS.
5. SCRUBBER NO. 2, HARRINGTON, MODEL ECH 99-4TP, HORIZONTAL PACKED TYPE, 4' - 5"W. x 9' - 0"L. x 9' - 0"H., WITH 9 FEET OF NO. 2 JAEGER TRI-PACKS PACKING, A MIST ELIMINATOR, AND TWO 10-HP RECIRCULATION PUMPS.
6. EXHAUST SYSTEM WITH THREE 50-HP BLOWERS AND ONE 50-HP BACK-UP BLOWER VENTING THREE ION IMPLANTERS, THREE DIFFUSION FURNACES, EIGHT GAS CABINETS, THREE PLASMA ETCHERS, TWO ACID ETCHERS, EIGHT ACID WET BENCHES, THIRTY-EIGHT MISCELLANEOUS CHEMICALS STORAGE TANK S, ONE LAM ALLIANCE ETCHER, THREE P5000 ETCHERS, ONE APPLIED MATERIALS CENTURA PLASMA ETCHER, ONE PECVD MACHINE AND ONE RTA UNIT.

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 FLOW METER, INDICATING GALLONS PER MINUTE (GPM), SHALL BE INSTALLED AND MAINTAINED IN THE SCRUBBING SOLUTION RECIRCULATION LINE TO SCRUBBER NO. 1.

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

4. NOT LESS THAN 150 GPM OF SCRUBBING SOLUTION SHALL BE SUPPLIED TO SCRUBBER NO. 1 NOZZLES WHENEVER THE SCRUBBER IS IN OPERATION.

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

5. A FLOW METER, INDICATING GPM, SHALL BE INSTALLED AND MAINTAINED IN THE SCRUBBING SOLUTION RECIRCULATION LINE TO SCRUBBER NO. 2.

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

6. NOT LESS THAN 150 GPM OF SCRUBBING SOLUTION SHALL BE SUPPLIED TO SCRUBBER NO. 2 NOZZLES WHENEVER THE SCRUBBER IS IN OPERATION.

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

7. THE SCRUBBING SOLUTION TO THE SCRUBBER NOZZLES SHALL BE MAINTAINED AT pH 8 OR HIGHER.

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

8. ARSINE CONCENTRATIONS AT THE OUTLETS OF THE MAIN CANISTERS, STANDBY CANISTERS, AND BY-PASS CANISTERS OF THE NOVAPURE DRY SCRUBBERS SHALL BE MONITORED CONTINUOUSLY FOR BREAKTHROUGH WITH A DISTRICT APPROVED ANALYZER.

   [RULE 1401]

9. WHEN A BREAKTHROUGH OCCURS AT THE OUTLET OF A MAIN CANISTER, THE ARSINE EFFLUENT FLOW TO THAT CANISTER WILL BE AUTOMATICALLY SWICTHED TO A STANDBY CANISTER OR A BY-PASS CANISTER, AND THE SPENT MAIN CANISTER SHALL BE REPLACED WITH A FRESH CANISTER.

   [RULE 1401]

10. WHEN A BREAKTHROUGH OCCURS AT THE OUTLET OF A STANDBY CANISTER OR A BY-PASS CANISTER, THE ARSINE FLOW TO THE ION IMPLANTER IT VENTS WILL BE AUTOMATICALLY SHUT DOWN AND THE SPENT CANISTER SHALL BE REPLACED WITH A FRESH CANISTER.

    [RULE 1401]

11. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 4, 6, 7, 8, 9, AND 10. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

    [RULE 3004 (a) (4)]

Periodic Monitoring:

12. THE OPERATOR SHALL DETERMINE AND RECORD THE pH OF THE SCRUBBING SOLUTION ONCE EVERY DAY.

    [RULE 3004 (a) (4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING SOLUTION ONCE EVERY DAY.

    [RULE 3004 (a) (4)]

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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
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PERMIT TO CONSTRUCT/OPERATE

Permit No. G4079
A/N 498039

Equipment Description:
AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. THERMAL OXIDIZER, JOHN ZINK, HORIZONTAL TYPE, 5,000,000 BTU PER HOUR, NATURAL GAS-FIRED, WITH AN ECONOMIZER.
2. EXHAUST SYSTEM WITH TWO 25-HP BLOWERS (ONE STANDBY) VENTING TWENTY-SIX PHOTOTRACKS, WAFER ETCHING AND STRIPPING LINE NO. 2, TWO PHOTORESIST STRIPPING MACHINES, AND FOUR SOLVENT BENCHES.

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. TEMPERATURE MEASUREMENT AND RECORDING DEVICE WITH AN ACCURACY OF $\pm$20 DEGREES FAHRENHEIT SHALL BE INSTALLED AND MAINTAINED AT THE OUTLET OF THE COMBUSTION CHAMBER.
   [RULE 3004 (a) (4)]
4. WHENEVER THE OXIDIZER IS IN OPERATION, THE TEMPERATURE AT THE OUTLET OF THE COMBUSTION CHAMBER (AS SHOWN ON THE INSTRUMENT DESCRIBED UNDER CONDITION NO. 3) SHALL NOT BE LESS THAN 1400 DEGREES FAHRENHEIT.
   [RULE 1303 (b) (2)-OFFSETS]
5. THE OVERALL VOC CONTROL EFFICIENCY (COLLECTION AND DESTRUCTION) OF THIS EQUIPMENT SHALL NOT BE LESS THAN 98.7%.
   [RULE 1303 (b) (2)-OFFSETS]
6. THIS AIR POLLUTION CONTROL (APC) SYSTEM SHALL NOT BE USED TO VENT ANY EQUIPMENT THAT IS USING HALOGENATED HYDROCARBONS.
   [RULE 401]
7. A NON-RESETTABLE FUEL FLOWMETER, INDICATING CUBIC FEET, SHALL BE INSTALLED IN THE NATURAL GAS SUPPLY LINE TO THIS EQUIPMENT.
   [RULE 1303 (b) (2)-OFFSETS; RULE 1401]
8. THE TOTAL QUANTITY OF NATURAL GAS CONSUMED IN THIS OXIDIZER AND MCGILL OXIDIZER SHALL NOT EXCEED 3,428,570 STANDARD CUBIC FEET IN ANY ONE CALENDAR MONTH.
   [RULE 1303 (b) (2)-OFFSETS; RULE 1401]

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9. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4, 5, 6 AND 8. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a) (4)]

Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO CONSTRUCT/OPERATE

Permit No. G4080
A/N 498040

Equipment Description:

STORAGE TANK T-121, PRE-MIX PAE, 7' - 0"DIA. x 6' - 10"L., 2,000 GALLON CAPACITY.

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 ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

4. THIS EQUIPMENT SHALL NOT RECEIVE MORE THAN 1,000 GALLONS OF MIXED ACIDS IN ANY ONE CALENDAR MONTH.

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

5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR NITRIC ACID (CAS # 7697-37-2) AND PHOSPHORIC ACID (CAS # 7664-38-2).

   [RULE 1401]

6. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

Permit No. G4081
A/N 498041

Equipment Description:

STORAGE TANK T-411, SCALE INHIBITOR, 1' - 3"DIA. x 1' - 10"H., 20 GALLON CAPACITY.

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 RECEIVE MORE THAN 50 GALLONS OF SCALE INHIBITOR IN ANY ONE CALENDAR MONTH.

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

4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR HYDROCHLORIC ACID (CAS # 7647-01-0), PHOSPHORIC ACID (CAS # 7664-38-2), AND SULFURIC ACID (CAS # 7664-93-9).

   [RULE 1401]

5. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 3. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO OPERATE

Permit No. G4082
A/N 498761

Equipment Description:

STORAGE TANK T-14, WASTE ACIDS, 10' - 0"DIA. x 11' - 6"L., 5,728 GALLON CAPACITY, WITH TWO 10 HP TRANSFER PUMPS.

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 MAXIMUM AMOUNT OF WASTE ACIDS TRANSFERED THROUGH THIS TANK SHALL NOT EXCEED 2,010,000 GALLONS IN ANY ONE CALENDAR MONTH.

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

4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

   [RULE 1303 (a) (1)-BACT]

5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR NITRIC ACID (CAS # 7697-37-2), PHOSPHORIC ACID (CAS # 7664-38-2), HYDROFLUORIC ACID (CAS # 7664-39-3), SULFURIC ACID (CAS # 7664-93-9), AND HYDROCHLORIC ACID (CAS # 7647-01-0).

   [RULE 1401]

6. THE OPERATOR SHALL MAINTAIN RECORDS TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 3 AND 5. THE RECORDS SHALL BE KEPT FOR THE MOST RECENT FIVE YEAR PERIOD AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

   [RULE 3004 (a) (4)]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO CONSTRUCT/OPERATE

Permit No.
A/N 502690

Equipment Description:

INTEGRATED CIRCUIT FABRICATION SYSTEM CONSISTING OF:

1. EIGHT ATMOSPHERIC DIFFUSION FURNACES, BTI, MODEL BDF41, 5' - 4"W. x 23' - 1"L. x 9' - 2"H., EACH 168 KVA ELECTRICALLY POWERED, EACH WITH ONE VACUUM PUMP.
2. LPCVD DIFFUSION FURNACE, BTI, MODEL BDF41, 5' - 4"W. x 23' - 1"L. x 9' - 2"H., 168 KVA ELECTRICALLY POWERED , WITH FOUR LTO TUBES, EACH TUBE WITH ONE FILTER TRAP, MASS-VAC, MODEL 355080-S, CONSISTING OF SIX STAINLESS STEEL GAUZE FILTERS AND SIX POLYPRO 2 MICRON FILTERS, AND FOUR VACUUM PUMPS.
3. DIFFUSION FURNACE, BTI, MODEL BDF41, 5' - 4"W. x 23' - 1"L. x 9' - 2"H., 168 KVA ELECTRICALLY POWERED, WITH TWO ATMOSPHERIC TUBES, ONE LPCVD LTO TUBE, AND ONE LPCVD TEOS TUBE, EACH LTO AND TEOS TUBE WITH ONE FILTER TRAP, MASS-VAC, MODEL 355080-S, CONSISTING OF SIX STAINLESS STEEL GAUZE FILTERS AND SIX POLYPRO 2 MICRON FILTERS, AND FOUR VACUUM PUMPS.
4. LPCVD DIFFUSION FURNACE, BTI, MODEL BDF41, 5' - 4"W. x 23' - 1"L. x 9' - 2"H., 168 KVA ELECTRICALLY POWERED , WITH FOUR POLY TUBES, EACH TUBE WITH ONE FILTER TRAP, MASS-VAC, MODEL 355050, CONSISTING OF STAINLESS STEEL GAUZE FILTERS AND FIVE POLYPRO 2 MICRON FILTERS, AND FOUR VACUUM PUMPS.
5. FOUR PECVD MACHINES, NOVELLUS, MODEL CONEPT ONE, 3' - 2"W. x 5' - 8"L. x 6' - 8"H., 18.72 KVA ELECTRICALLY POWERED , EACH WITH ONE FILTER TRAP, MASS-VAC, MODEL 355050, CONSISTING OF STAINLESS STEEL GAUZE FILTERS AND POLYPRO 2 MICRON FILTERS, AND EACH WITH ONE 2.5 HP VACUUM PUMP AND ONE 5 HP VACUUM PUMP.
6. SIXTEEN PLASMA ETCHERS, TEGAL, MODEL T/903E, 3' - 8"W. x 3' - 6"D. x 2' - 2"H., EACH 6.24 KVA, EACH WITH ONE VACUUM PUMP.
7. TWENTY-ONE PLASMA ETCHERS, LAM, MODEL 490, 3' - 8"W. x 3' - 6"D. x 2' - 2"H., EACH 45 KVA, EACH WITH TWO 2 HP VACUUM PUMPS.
8. FIVE ION IMPLANTERS, APPLIED MATERIALS, MODEL 9500, 17' - 0"W. x 11' - 8"L. x 7' - 11"H., EACH 65 KVA, ONE 4 HP VACUUM PUMP, AND ONE 2 HP VACUUM PUMP.
9. TWO ASHERS, GASONICS, MODEL A1000, 2' - 8"W. x 2' - 8"L. x 2' - 4"H., EACH 9 KVA ELECTRICALLY POWERED, AND EACH WITH ONE 5 HP VACUUM PUMP.
10. ETCHER, GASONICS, MODEL AE2001, 2' - 8"W. x 3' - 1"L. x 4' - 7"H., 9 KVA ELECTRICALLY POWERED, WITH ONE 5 HP VACUUM 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]

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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 FOLLOWING ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER:

   - ELEVEN DIFFUSION FURNACES.

   - THIRTY-SIX PLASMA ETCHERS.

   - FOUR PECVD MACHINES

   - FIVE ION IMPLANTERS.

   - TWO ETCHERS.

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

4. THE FLOW RATE OF ARSINE TO EACH ION IMPLANTER SHALL NOT EXCEED 0.01 LITER PER MINUTE.

   [RULE 1401]

5. THE AMOUNTS OF MATERIALS USED IN THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING IN ANY ONE CALENDAR MONTH:

MATERIALS	LIMITS, LBS
PH_3	3
SiH_4	120.5
BF_3	2
C_2F_6	340
CHF_3	99
Cl_2	155
SF_6	160
$POCl_3$	13
$C_8H_{20}SiO_4$	40
NF_3	26
CH_3CCl_3	70

6. RECORDS SHALL BE KEPT TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4 AND 5. THE RECORDS SHALL BE MAINTAINED ON FILE FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

   [RULE 1401]

FACILITY PERMIT TO OPERATE
INTERNATIONAL RECTIFIER HEXFET AMERICA

PERMIT TO CONSTRUCT/OPERATE

Permit No.
A/N 502691

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. FIVE BURN BOXES, METRON, MODEL GUARDIAN GS8, EACH 1' - 9"W. x 6' - 4"L. x 4' - 10.2"H. WITH ONE HYDROGEN-FIRED BURNER, 17,496 BTU PER HOUR.
2. FIVE DRY SCRUBBERS, EACH NOVAPURE, MODEL 300 SERIES, 2' - 0"W. x 2' - 0"L. x 5' - 6"H., EACH WITH A MAIN CANISTER WITH A MINIMUM OF 32 GALLONS OF RESIN, A BY-PASS CANISTER WITH A MINIMUM OF 0.3 GALLON OF RESIN, EACH VENTING ONE ION IMPLANTER.
3. SCRUBBER, METRON, MODEL VECTOR 6000, 2' - 3"W. x 3' - 0.3"D. x 7' - 1"H. VENTING ONE PECVD FURNACE.
4. SCRUBBER NO. 101, HARRINGTON, MODEL ECH-1L-12-5, HORIZONTAL PACKED BED TYPE, 12' - 6"W. x 21' - 7"L. x 15' - 5"H., WITH A 12' - 0"W. x 11' - 0"H. x 5' - 0"D. BED OF 3 1/2" LANPAC PLASTIC PACKING, A 1 FOOT DEEP SINE-WAVE PLATE TYPE DEMISTER SECTION, TWO 15-HP RECIRCULATION PUMPS, AND ONE 100-HP BLOWER.
5. SCRUBBER NO. 102, HARRINGTON (STANDBY TO SCRUBBER NO. 101), MODEL ECH-1L-12-5, HORIZONTAL PACKED BED TYPE, 12' - 6"W. x 21' - 7"L. x 15' - 5"H., WITH A 12' - 0"W. x 11' - 0"H. x 5' - 0"D. BED OF 3 1/2" LANPAC PLASTIC PACKING, TWO 15-HP RECIRCULATION PUMPS, AND ONE 100-HP BLOWER.
6. EXHAUST SYSTEM VENTING ELEVEN DIFFUSION FURNACES, FOUR PECVD MACHINES, THIRTY-SEVEN GAS CABINET PURGE LINES, FIVE ION IMPLANTERS, THIRTY-SIX PLASMA ETCHERS, EIGHTEEN ETCHERS, TWO WAFER GRINDERS, FOUR WASTE ACID STORAGE TANKS, ONE WASTE AMMONIUM HYDROXIDE STORAGE TANK, ONE WASTE WATER STORAGE TANK, TWO WAFER ETCHING AND STRIPPING LINES, ONE MAINTENANCE BENCH, THREE ACID WET BENCHES, TWO QUARTZ CLEANING MACHINES, TWO ACID STORAGE CABINETS, ONE DRAG SOLDER MACHINE AND ONE REFLOW OVEN.

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 FLOW METER, INDICATING GALLONS PER MINUTE (GPM), SHALL BE MAINTAINED IN THE SCRUBBING SOLUTION RECIRCULATION LINE TO SCRUBBER NO. 101.

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

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4. A FLOW METER, INDICATING GALLONS PER MINUTE (GPM), SHALL BE MAINTAINED IN THE SCRUBBING SOLUTION RECIRCULATION LINE TO SCRUBBER NO. 102.

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

5. NOT LESS THAN 462 GPM OF SCRUBBING SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER NOZZLES SERVING SCRUBBER NO. 101 WHENEVER SCRUBBER NO. 101 IS IN OPERATION.

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

6. NOT LESS THAN 462 GPM OF SCRUBBING SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER NOZZLES SERVING SCRUBBER NO. 102 WHENEVER SCRUBBER NO. 102 IS IN OPERATION.

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

7. SCRUBBING SOLUTION TO THE SCRUBBER NOZZLES SHALL BE MAINTAINED AT pH 8 OR HIGHER.

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

8. ARSINE CONCENTRATIONS AT THE OUTLETS OF THE MAIN CANISTERS AND BY-PASS CANISTERS OF THE NOVAPURE DRY SCRUBBERS SHALL BE MONITORED CONTINUOUSLY FOR BREAKTHROUGH WITH A DISTRIST APPROVED ANALYZER.

   [RULE 1401]

9. WHEN A BREAKTHROUGH OCCURS AT THE OUTLET OF A MAIN CANISTER, THE ARSINE EFFLUENT FLOW TO THAT CANISTER WILL BE AUTOMATICALLY SWICTHED TO THE BY-PASS CANISTER AND THE SPENT MAIN CANISTER SHALL BE REPLACED WITH A FRESH CANISTER.

   [RULE 1401]

10. WHEN A BREAKTHROUGH OCCURS AT THE OUTLET OF A BY-PASS CANISTER, THE ARSINE FLOW TO THE ION IMPLANTER IT VENTS WILL BE AUTOMATICALLY SHUT DOWN AND THE SPENT CANISTER SHALL BE REPLACED WITH A FRESH CANISTER.

    [RULE 1401]

11. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 5, 6, 7, 8, 9, AND 10. THE RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

    [RULE 3004 (a) (4)]

Periodic Monitoring:

12. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING SOLUTION ONCE EVERY DAY.

    [RULE 3004 (a) (4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE pH OF THE SCRUBBING SOLUTION ONCE EVERY DAY.

    [RULE 3004 (a) (4)]

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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
INTERNATIONAL RECTIFIER HEXFET AMERICA

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 CONSISITING 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 CONSITING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/L) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/L OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

   [RULE 3004 (a) (4)]

Emissions And Requirements:

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

   VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

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

   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS