DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail No.

Activity No.: PER20030005
Agency Interest No. 2082

Mr. J. William Lessing
Site Leader
PO Box 226
Geismar, LA 70734-0226

RE: Part 70 Operating Permit, Honeywell International Inc - Geismar Complex
Honeywell International Inc, Geismar, Ascension/Iberville Parish, Louisiana

Dear Mr. Lessing:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ___ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

For Public Notice

CCB:mv
c: EPA Region VI

ENVIRONMENTAL **SERVICES**
: PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
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AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Honeywell International Inc - Geismar Complex
Agency Interest No.: 2082; PER20030005
Honeywell International Inc.
Geismar, Ascension/Iberville Parish, Louisiana

I. Background

Honeywell International Inc, (HII) - Geismar Complex, an existing chemical manufacturing facility, began operation in 1967. The HII - Geismar Complex – Hydrofluoric acid manufacturing plant (HF Plant) operates under State Permit 2394 (M-1) dated February 19, 1998, State Permit 2826 dated November 26, 2002, and Permit 2910-V0 dated November 17, 2005.

This is the Initial Part 70 operating permit for the facility. This Title V Permit will combine the above three (3) permits into one permit.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by HII on September 11, 2003 requesting a Part 70 operating permit. Additional information dated October 20, 2005 and March 8, 2006 and March 15, 2006 was also received.

III. Description

Hydrogen Fluoride Plant

Hydrogen fluoride (HF) is produced by reacting fluorspar (calcium fluoride) with sulfuric acid (H_2SO_4) in an anhydrous environment. The reaction occurs in externally-heated horizontal rotary kilns. The produced HF gas is routed through a cooling and purification train for removal of water, H_2SO_4 mist, and other impurities. It is then condensed and routed to storage as commercial grade HF. Solid calcium sulfate ($CaSO_4$), a by-product of this process, is drawn from the furnaces, slurred with pond water, transported to a series of neutralizers, and deposited in a stacking facility.

Sulfur dioxide (SO_2) is formed by the partial reduction of the HF residue at furnace temperatures. Some of the SO_2 is condensed with the HF commercial grade product. The remaining SO_2 is carried with the condenser's overhead vapors to the tail gas scrubbers. SO_2 is removed from the commercial grade HF by distillation to produce high purity grade HF. The SO_2 is recycled to the cooling and purification train.

The tail gas passes through a series of three (3) wet scrubbers. The first of these, the acid scrubber, uses H_2SO_4 as scrubbing medium to recover HF which escapes the condensers. The recovered HF is rerouted to the furnaces. Each of the next two (2) scrubbers, the water and SO_2 scrubbers, use water as scrubbing media. The water scrubber absorbs silicon tetrafluoride and the SO_2 scrubber absorbs SO_2.

Products are routed to on-site storage vessels from which they are eventually sent to transfer racks for loading into rail cars and tank trucks. Anhydrous HF is stored in pressure vessels. Aqueous HF is stored in fixed roof tanks that are controlled by scrubbers. There is a combination rail/truck loading rack for the HF plant and a truck loading rack for each of the HF Additives Plants. All loading operations are controlled by scrubbers.

The slurry mixture is processed through a neutralizer and the neutralizer effluent flows to the residue stack. In this step, solid mostly $CaSO_4$ settle out. Liquid leaving the pond system, typically at a pH between 2.0 and 2.5, is reused in the plant as a scrubber medium or slurry water. Excess pond water is treated in a clarifier where the pH is raised between 6 and 9 before discharge. Clarifier underflow is returned to the residue stack.

HF Additives Facility
Commercial grade finished HF from the HF plant is blended for offsite shipment.

This permit adds the HF purification project that consists in arsenic and phosphate removal and includes the following changes.

This permit removes the following Emission Sources:

1. Emission Point 89-77, HF Diesel Generator Engine
2. Four (4) Furnace Rotator Engines. These are:
   - Emission Point 89-78A, Furnace Rotator Engine No. 1
   - Emission Point 89-78B, Furnace Rotator Engine No. 2
   - Emission Point 89-78C, Furnace Rotator Engine No. 3
   - Emission Point 89-78D, Furnace Rotator Engine No. 4
3. Emission Point 1-94, Ultra High Purity HF Plant Fume Scrubber
4. Emission Point 2-94, Ultra High Purity HF Plant Fugitives
5. Emission Point 2-97, South Cooling Water Tower

This permit adds the following Emission Points not permitted before.

1. Three (3) Compressors, Emission Point 17-02, Atlas Copco Air Compressor, Emission Point 18-02, Brambles Sullair Air Compressor, and Emission Point 19-02, Ingersol Rand Air Compressor
2. Emission Point 10-05, North Cooling Water Tower 2
3. Two (2) pumps, Emission Point 20-02, Emergency River Water Pump and Emission Point 21-02, Emergency Sump Pump
4. Emission Point 24-02, HF Laboratory Hoods
5. Five (5) tanks, Emission Point 1-05, Tank U-802, Emission Point 2-05, Tank U-804, Emission Point 3-05, Sulfuric Acid Tank, Emission Point 1-06, Tank U 876, and Emission Point 2-06, Tank U 877

6. Emission Point 4-05, Catalyst Transfer
7. Emission Point 5-05, HF Additives Unit 2 Fume Scrubber
8. Two (2) Air Heaters, Emission Point 11-05, HF Furnace No. 1 Air Heater Seal and Emission Point 12-05, HF Furnace No. 2 Air Heater Seal
9. Two (2) Furnaces, Emission Point 11-05A, HF Furnace No. 1 and Emission Point 12-05A, HF Furnace No. 2
10. Seven (7) insignificant activities
    - Emission Point 25-02a, Tank U-710
    - Emission Point 26-02, Sump Pump Fuel Tank
    - Emission Point 27-02, River Water Diesel Pump Tank
    - Tank U-803
    - Tank U-805
    - Tank U-806
    - TMS Tank
11. Fifteen Fugitives
    - Emission Point 4-02, Clam Shell Fugitives
    - Emission Point 5-02, Gantry Fugitives
    - Emission Point 6-02, Belt 1-2 Transfer Fugitives
    - Emission Point 7-02, Belt 2-3 Transfer Fugitives
    - Emission Point 8-02, Belt 3-4 Transfer Fugitives
    - Emission Point 9-02, Belt 4-5 Transfer Fugitives
    - Emission Point 10-02, Spar Storage Building No. 1 Transfer Fugitives
    - Emission Point 11-02, Truck Loading Fugitives
    - Emission Point 12-02, Haul Road Fugitives
    - Emission Point 13-02, Spar Storage Building No. 2 Transfer Fugitives
    - Emission Point 14-02, Hopper Transfer Fugitives
    - Emission Point 15-02, Grizzly Feeder Transfer Fugitives
    - Emission Point 16-02, Grizzly Feeder Fugitives
    - Emission Point 25-02, HF Lime Slaker Fugitives
    - Emission Point 6-05, HF Additives Unit 2 Fugitives

This permit also changes the following:

1. Adds refrigeration capacity and equipment
2. Modifies the HF production unit
3. Modifies the residue handling process to convert it from wet handling to dry handling
4. Upgrades the raw material, fluorspar, handling and drying process
5. Modifies the HF scrubber system to meet the requirements of the Federal HF MACT standard

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
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Honeywell International Inc - Geismar Complex
Agency Interest No.: 2082; PER20030005
Honeywell International Inc.
Geismar, Ascension/Iberville Parish, Louisiana

Estimated emissions in tons per year are as follows:

Pollutant	Before*	After	Change
PM_{10}	61.44	52.78	–8.66
SO_2	82.03	78.76	–3.27
NO_X	57.40	94.53	+37.13
CO	37.74	89.28	+51.54
VOC **	5.12	9.73	+4.61

*includes the emissions from Permits Nos. 2826, 2304(M-1) , and 2910-V0.

**VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
2,2,4-trimethylpentane	–	<0.01	–
Acetaldehyde	0.003	0.003	–
Acrolein	<0.001	<0.001	–
Benzene	<0.01	<0.01	–
Cumene	<0.01	<0.01	–
Ethyl benzene	<0.01	<0.01	–
Formaldehyde	–	0.22	+0.22
n-Hexane	<0.001	<0.001	–
Naphthalene	<0.001	<0.001	–
Methanol	–	0.11	+0.11
Methyl tertiary butyl ether	–	0.08	+0.08
Polynuclear Aromatic Hydrocarbons	<0.001	<0.001	–
Toluene	–	<0.01	–
Xylene	–	<0.01	–
Total	0.003	0.413	+0.41

Other non-VOC TAPs (TPY):

Arsenic	0.18
Chlorine	0.42
HF	6.88
Mercury	<0.01

Other non-VOC TAPs (TPY):	
HNO_3	0.12
H_2SO_4	2.57
Other non-VOC non-TAP (TPY):	
Ozone depleting substances	8.55
SO_3	5.36

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, National Emission Standards for Hazardous Air Pollutants (NESHAP), and New Source Performance Standards (NSPS). Prevention of Significant Deterioration (PSD) and Non-attainment New Source Review do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on **<date>**, 2006; and in *The Gonzales Weekly*, Gonzales, on **<date>**, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on **<date>**. The draft permit was also submitted to US EPA Region VI on **<date>**. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu g/m^3$)	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS}) ($\mu g/m^3$)
PM_{10}	24-hour	91.7	(150)
PM_{10}	Annual	29.5	(50)

VIII. General Condition XVII Activities

There are no General Condition XVII activities in this permit.

IX. Insignificant Activities

ID No.:	Description	Citation
89-84	Tank 84 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-85	Tank 85 (stores used oil)	LAC 33:III.501.B.5.A.3.
89-90	Tank 90 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-91	Tank 91 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-93	Tank 93 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-94	Tank 94 (stores diesel)	LAC 33:III.501.B.5.A.3.
89-95	Tank 93 (stores waste oil)	LAC 33:III.501.B.5.A.3.
89-96	Tank 96 (stores diesel)	LAC 33:III.501.B.5.A.3.
25-02a	Tank U-710 (stores tetramethylene sulfone)	LAC 33:III.501.B.5.A.3.
26-02	Sump Pump Fuel Tank (stores diesel)	LAC 33:III.501.B.5.A.3.
27-02	River Water Diesel Pump Tank (stores diesel)	LAC 33:III.501.B.5.A.3.
–	Tank U-803 (stores hydrogen peroxide)	LAC 33:III.501.B.5.A.3.
–	Tank U-805 (stores hydrogen peroxide)	LAC 33:III.501.B.5.A.3.
–	Tank U-806 (stores hydrogen peroxide)	LAC 33:III.501.B.5.A.3.
–	TMS Tank (stores tetramethylene sulfone)	LAC 33:III.501.B.5.A.3.

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53	56	59
GRP10	Plant Wide		1	1	1			3	1	1	3	3		3			1		1	1
EQT 4	2-02 Clarifier Diesel Generator Engine			1	1	2									2		2			
EQT 5	3-02 HF Diesel Generator Engine			1	1	2									2		2			
EQT 6	89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H_2SO_4)						3										1			
EQT 7	89-15 - HF Tail Gas Scrubber System					2											1			
EQT 8	89-40 - Oleum (104.2% H_2SO_4) Storage Tank U-203						3										1			
EQT 9	89-47 - Fluorspar Silo				1												1			
EQT 10	89-48 - Fluorspar Use Silo No. 1				1												1			
EQT 11	89-51 - Lime Storage Silo 1				1															
EQT 12	89-54 - Fluorspar Dryer			1	1	2									2		1			
EQT 13	89-56 - HF Furnace No. 3 Air Heater Seal			1	1	2									2		1			
EQT 14	89-56A - HF Furnace No. 3 Air Heater			1	1	2									2		1			
EQT 15	89-57 - HF Furnace No. 4 Air Heater Seal			1	1	2									2		1			
EQT 16	89-57A - HF Furnace No. 4 Air Heater			1	1	2									2		1			
EQT 17	89-58 - Fluorspar Use Silo No. 2				1												1			
EQT 18	89-62 - Clarifier Lime Silo				1															
EQT 19	89-63A - HF Residue Screws Sample Port No. 1																			

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53	56	59
EQT 20	89-63B - HF Residue Screws Sample Port No. 2																			
EQT 21	89-63C - HF Residue Screws Sample Port No. 3																			
EQT 22	89-63D - HF Residue Screws Sample Port No. 4																			
EQT 23	89-65 - Aqueous HF Storage Vent Scrubber																1			
EQT 24	89-72 - Fire Water Pump Engine #1			1	1	2									2		2			
EQT 25	89-74 - Fire Water Pump Engine #2			1	1	2									2		2			
EQT 26	89-83 - Unleaded Gasoline Storage Tank						1						3				1			
EQT 27	1-96 - HF Utility Boiler			1	1	1									2		1			
EQT 28	1-96A - HF Additives Unit 1 Fume Scrubber																1			
EQT 29	1-97 - North Cooling Water Tower 1																1			
EQT 30	1-02 - HF Plant South Cooling Water Tower																1			
EQT 31	2-02 - Clarifier Diesel Pump Engine			1	1	2									2		2			
EQT 32	3-02A - Furnace Rotator Engine No. 1			1	1	2									2		2			
EQT 33	3-02B - Furnace Rotator Engine No. 2			1	1	2									2		2			
EQT 34	3-02C - Furnace Rotator Engine No. 3			1	1	2									2		2			
EQT 35	3-02D - Furnace Rotator Engine No. 4			1	1	2									2		2			
EQT 36	17-02 - Atlas Copco Air Compressor			1	1	2									2		2			

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53	56	59
EQT 37	18-02 - Brambles Sullair Air Compressor			1	1	2									2		2			
EQT 38	19-02 - Ingersol Rand Air Compressor			1	1	2									2		2			
EQT 39	20-02 - Emergency River Water Pump			1	1	2									2		2			
EQT 40	21-02 - Emergency Sump Pump			1	1	2									2		2			
EQT 41	24-02 - HF Laboratory Hoods																1			
EQT 42	1-05 - Tank U-802						3										1			
EQT 43	2-05 - Tank U-804						3										1			
EQT 44	3-05 - Sulfuric Acid Tank						3										1			
EQT 45	4-05 - Catalyst Transfer				1															
EQT 46	5-05 - HF Additives Unit 2 Fume Scrubber																1			
EQT 47	10-05 - North Cooling Water Tower 2																1			
EQT 48	11-05 - HF Furnace No. 1 Air Heater Seal				1	2	2								2		1			
EQT 49	11-05A - HF Furnace No. 1				1	2	2								2		1			
EQT 50	12-05 - HF Furnace No. 2 Air Heater Seal				1	2	2								2		1			
EQT 51	12-05A - HF Furnace No. 2				1	2	2								2		1			
EQT 52	89-71 Clarifier Diesel Generator Engine			1	1	2									2		2			
EQT 53	Tank U-501																			

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53	56	59
EQT 54	Tank U-502																			
EQT 55	Tank U-711																			
EQT 56	Additive Storage Tank																			
EQT 57	Truck Loading																			
EQT 58	Aqueous HF Loading Rack																			
EQT 59	HF Additives Unit 1 Truck Loading Rack																			
EQT 60	HF Additives Unit 2 Truck Loading Rack																			
EQT 61	89-37 - HF Furnace Air Heater No.1				1	2	2								2		1			
EQT 62	89-38 - HF Furnace Air Heater No.2				1	2	2								2		1			
EQT 63	1-06 - Tank U-876						3										1			
EQT 64	2-06 - Tank U-877						3										1			
FUG 1	89-64 - HF Plant Fugitive Emissions					2											1			
FUG 2	2-96 - HF Additives Unit 1 Fugitives											3			3		1			
FUG 3	3-97 - Cooling Pond Fugitive Emissions																1			
FUG 4	4-02 - Clam Shell Fugitives				1												1			
FUG 5	5-02 – Gantry Fugitives				1												1			
FUG 6	6-02 - Belt 1-2 Transfer Fugitives				1												1			

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		5▲	9	11	13	15	2103	2107	2111	2113	2121	2122	2131	2153	22	29*	51*	53	56	59
FUG 7	7-02 - Belt 2-3 Transfer Fugitives				1												1			
FUG 8	8-02 - Belt 3-4 Transfer Fugitives				1												1			
FUG 9	9-02 - Belt 4-5 Transfer Fugitives				1												1			
FUG 10	10-02 - Spar Storage Building No. 1 Transfer Fugitives				1												1			
FUG 11	11-02 - Truck Loading Fugitives				1												1			
FUG 12	12-02 - Haul Road Fugitives				1															
FUG 13	13-02 - Spar Storage Building No. 2 Transfer Fugitives				1												1			
FUG 14	14-02 - Hopper Transfer Fugitives				1												1			
FUG 15	15-02 - Grizzly Feeder Transfer Fugitives				1												1			
FUG 16	16-02 - Grizzly Feeder Fugitives				1												1			
FUG 17	25-02 - HF Lime Slaker Fugitives				1															
FUG 18	6-05 - HF Additives Unit 2 Fugitives											3					1			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60						40 CFR 61			40 CFR 63						40 CFR		
		Ka	Kb	Db	Dc	OOO	UUU	A	M	FF	A	Q	SS	YY	ZZZZ	DDDDD	52	68	82
GRP10	Plant Wide								1	1	1			1				1	1
EQT 4	2-02 Clarifier Diesel Generator Engine														1				
EQT 5	3-02 HF Diesel Generator Engine														1				
EQT 6	89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H_2SO_4)		3																
EQT 7	89-15 - HF Tail Gas Scrubber System												1	1					
EQT 8	89-40 - Oleum (104.2% H_2SO_4) Storage Tank U-203		3																
EQT 9	89-47 - Fluorspar Silo					3													
EQT 10	89-48 - Fluorspar Use Silo No. 1					3													
EQT 11	89-51 - Lime Storage Silo 1																		
EQT 12	89-54 - Fluorspar Dryer						3									3			
EQT 13	89-56 - HF Furnace No. 3 Air Heater Seal															1			
EQT 14	89-56A - HF Furnace No. 3 Air Heater															1			
EQT 15	89-57 - HF Furnace No. 4 Air Heater Seal															1			
EQT 16	89-57A - HF Furnace No. 4 Air Heater															1			
EQT 17	89-58 - Fluorspar Use Silo No. 2					3													
EQT 18	89-62 - Clarifier Lime Silo																		
EQT 19	89-63A - HF Residue Screws Sample Port No. 1																		

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EQT 20	89-63B - HF Residue Screws Sample Port No. 2																		
EQT 21	89-63C - HF Residue Screws Sample Port No. 3																		
EQT 22	89-63D - HF Residue Screws Sample Port No. 4																		
EQT 23	89-65 - Aqueous HF Storage Vent Scrubber												1	1					
EQT 24	89-72 - Fire Water Pump Engine #1														3				
EQT 25	89-74 - Fire Water Pump Engine #2														3				
EQT 26	89-83 - Unleaded Gasoline Storage Tank		3																
EQT 27	1-96 - HF Utility Boiler			1												1			
EQT 28	1-96A - HF Additives Unit 1 Fume Scrubber												1	1					
EQT 29	1-97 - North Cooling Water Tower 1											3							
EQT 30	1-02 - HF Plant South Cooling Water Tower											3			3				
EQT 31	2-02 - Clarifier Diesel Pump Engine														3				
EQT 32	3-02A - Furnace Rotator Engine No. 1														3				
EQT 33	3-02B - Furnace Rotator Engine No. 2														3				
EQT 34	3-02C - Furnace Rotator Engine No. 3														3				
EQT 35	3-02D - Furnace Rotator Engine No. 4														3				
EQT 36	17-02 - Atlas Copco Air Compressor														3				
EQT 37	18-02 - Brambles Sullair Air Compressor														3				

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60						40 CFR 61			40 CFR 63						40 CFR		
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EQT 38	19-02 - Ingersol Rand Air Compressor														3				
EQT 39	20-02 - Emergency River Water Pump														3				
EQT 40	21-02 - Emergency Sump Pump														3				
EQT 41	24-02 - HF Laboratory Hoods																		
EQT 42	1-05 - Tank U-802		3																
EQT 43	2-05 - Tank U-804		3																
EQT 44	3-05 - Sulfuric Acid Tank		3																
EQT 45	4-05 - Catalyst Transfer																		
EQT 46	5-05 - HF Additives Unit 2 Fume Scrubber												1	1					
EQT 47	10-05 - North Cooling Water Tower 2											3							
EQT 48	11-05 - HF Furnace No. 1 Air Heater Seal															1			
EQT 49	11-05A - HF Furnace No. 1															1			
EQT 50	12-05 - HF Furnace No. 2 Air Heater Seal															1			
EQT 51	12-05A - HF Furnace No. 2															1			
EQT 52	89-71 Clarifier Diesel Generator Engine														3				
EQT 53	Tank U-501													1					
EQT 54	Tank U-502													1					
EQT 55	Tank U-711													1					
EQT 56	Additive Storage Tank													1					

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60						40 CFR 61			40 CFR 63						40 CFR		
		Ka	Kb	Db	Dc	OOO	UUU	A	M	FF	A	Q	SS	YY	ZZZZ	DDDDD	52	68	82
EQT 57	Truck Loading													1					
EQT 58	Aqueous HF Loading Rack													1					
EQT 59	HF Additives Unit 1 Truck Loading Rack													1					
EQT 60	HF Additives Unit 2 Truck Loading Rack													1					
EQT 61	89-37 - HF Furnace Air Heater No.1															1			
EQT 62	89-38 - HF Furnace Air Heater No.2															1			
EQT 63	1-06 - Tank U-876		3																
EQT 64	2-06 - Tank U-877		3																
FUG 1	89-64 - HF Plant Fugitive Emissions													1					
FUG 2	2-96 - HF Additives Unit 1 Fugitives													1					
FUG 3	3-97 - Cooling Pond Fugitive Emissions																		
FUG 4	4-02 - Clam Shell Fugitives					3													
FUG 5	5-02 – Gantry Fugitives					3													
FUG 6	6-02 - Belt 1-2 Transfer Fugitives					3													
FUG 7	7-02 - Belt 2-3 Transfer Fugitives					3													
FUG 8	8-02 - Belt 3-4 Transfer Fugitives					3													
FUG 9	9-02 - Belt 4-5 Transfer Fugitives					3													
FUG 10	10-02 - Spar Storage Building No. 1 Transfer Fugitives					3													
FUG 11	11-02 - Truck Loading Fugitives					3													

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60						40 CFR 61			40 CFR 63						40 CFR		
		Ka	Kb	Db	Dc	OOO	UUU	A	M	FF	A	Q	SS	YY	ZZZZ	DDDDD	52	68	82
FUG 12	12-02 - Haul Road Fugitives																		
FUG 13	13-02 - Spar Storage Building No. 2 Transfer Fugitives					3													
FUG 14	14-02 - Hopper Transfer Fugitives					3													
FUG 15	15-02 - Grizzly Feeder Transfer Fugitives					3													
FUG 16	16-02 - Grizzly Feeder Fugitives					3													
FUG 17	25-02 - HF Lime Slaker Fugitives																		
FUG 18	6-05 - HF Additives Unit 2 Fugitives													1					

KEY TO MATRIX

1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP10 Entire Facility	LAC 33:III.2107 – Volatile Organic Compounds – Loading	DOES NOT APPLY – The facility does not load volatile organic compounds having a true vapor pressure in excess of 1.5 psia in excess of applicable thresholds (LAC 33;III.2107.A).
	LAC 33:III.2121 – Fugitive Emission Control	DOES NOT APPLY – Facility does not manufacture as intermediates or final products any chemicals listed in LAC 33:III. Chapter 21, Table 8.
	LACE 33:III.2122 – Fugitive Control for Ozone Nonattainment Areas	DOES NOT APPLY – Facility does not manufacture as intermediates or final products any chemicals listed in LAC 33:III. Chapter 21, Table 8.
	LACE 33:III.2153 – Limiting Volatile Organic Compound Emission from Industrial Wastewater	DOES NOT APPLY – There are no wastewater streams with a VOC concentration greater than 10,000 ppmw, or with a VOC concentration greater than 1000 ppmw and a flow rate greater than 10 L/min (LAC 33:III.2153.A).

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 6, 8, 42, 43, and 44	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY – Tank does not store a volatile organic liquid.
	LAC 33:III.2103 – Storage of Volatile Organic Compounds	DOES NOT APPLY – Tank does not store a volatile organic.
EQT 7	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO_2 per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO_2 standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
EQT 9, 10	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670)	DOES NOT APPLY – Facility is not a Nonmetallic Mineral Processing Plant as spar handling equipment does not include a crushing or grinding operation.
EQT 12	NSPS Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries (40 CFR 60.730)	DOES NOT APPLY – Facility in mineral processing plant by definition (facility handles fluorspar, which is not a listed mineral).

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 12 (Continued)	40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters	DOES NOT APPLY – Dryer does not meet the definition of "Process Heater" because process materials come in contact with combustion gases (40 CFR 63.7575.Process Heater).
	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO_2 per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO_2 standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
	LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT – Exempt as a kiln/oven (LAC 33:III.2201.C.7).
EQT 17	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670)	DOES NOT APPLY – Facility is not a Nonmetallic Mineral Processing Plant as spar handling equipment does not include a crushing or grinding operation.
EQT 24, 25, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, and 52	40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	DOES NOT APPLY – Site rating is less than 500 brake horsepower (40 CFR 63.6590(a)).

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 24, 25, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, and 52 (Continued)	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO_2 per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO_2 standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
	LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT – Exempt as diesel fired stationary internal combustion engine (LAC 33:III.2201.C.14).
	LAC 33:III.5109 – Emission Control and Reduction Requirements and Standards State Only	EXEMPT – Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of this chapter (LAC 33:III.5105.B.3.a).
EQT 4 and 5	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO_2 per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO_2 standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
	LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT – Exempt as diesel fired stationary internal combustion engine (LAC 33:III.2201.C.14).

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 4 and 5 (Continued)	LAC 33:III.5109 – Emission Control and Reduction Requirements and Standards State Only	EXEMPT – Emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of this chapter (LAC 33:III.5105.B.3.a).
EQT 26	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY – Tank does not store a volatile organic liquid.
	LAC 33:III.2131 – Filling of Gasoline Storage Vessels	DOES NOT APPLY – The rolling 30-day average throughput does not exceed 10,000 gallons, and annual throughput is less than 120,000 gallons (LAC 33:III.2131.D.3)
EQT 27	LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT – Exempt as a process boiler with a maximum rated capacity of less than 80 MM Btu/hr (LAC 33:III.2201.C.1).
EQT 29, 30, and 47	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants from Industrial Cooling Towers	DOES NOT APPLY – Cooling tower was not operated with chromium-based water treatment chemicals on or after September 8, 1994.

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 13, 14, 15, 16, 48, 49, 50, 51, 61 and 62	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO_2 per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO_2 standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
	LAC 33:III.Chapter 22 – Control of Emissions of Nitrogen Oxides	EXEMPT – Exempt as a process heater/furnace with a maximum rated capacity of less than 80 MM Btu/hr (LAC 33:III.2201.C.1).
FUG 1	Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A] Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1513]	EXEMPT. Units emit less than 250 tons of SO_2 per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO_2 standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
FUG 2	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY – Facility is not a petroleum refinery, natural gas processing plant, SOCMI facility, MTBE manufacturing facility, or polymer manufacturing facility.
FUG 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, and 16	NSPS Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670)	DOES NOT APPLY – Facility is not a Nonmetallic Mineral Processing Plant as spar handling equipment does not include a crushing or grinding operation.

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
FUG 18	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY – Facility is not a petroleum refinery, natural gas processing plant, SOCMI facility, MTBE manufacturing facility, or polymer manufacturing facility.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]

B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]

C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]

D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]

E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]

F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]

G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:

1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];

3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]

I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]

J. Records of required monitoring shall include the following:

1. the date, place as defined in the permit, and time of sampling or measurements;
2. the date(s) analyses were performed;
3. the company or entity that performed the analyses;
4. the analytical techniques or methods used;
5. the results of such analyses; and
6. the operating conditions as existing at the time of sampling or measurement.

[Reference 40 CFR 70.6(a)(3)(ii)(A)]

K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly

delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]

P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]

Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:

1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;

2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;

3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

5. changes in emissions would not qualify as a significant modification; and

6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).

1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

   a. Report by June 30 to cover January through March
   b. Report by September 30 to cover April through June

c. Report by December 31 to cover July through September
d. Report by March 31 to cover October through December

4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;

2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;

3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;

4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);

5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and

6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.

II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.

III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated September 11, 2003, along with supplemental information dated October 20, 2005 and March 8, 2006 and March 15, 2006.

IV. This permit shall become invalid, for the sources not constructed, if:

A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;

B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior

approval shall be obtained from the Office of Environmental Services, Air Permits Division.

VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.

X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.

XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.

A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;

B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;

C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and

D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the

maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 2082 Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

Also Known As:

ID	Name	User Group	Start Date
0180-00003	Honeywell International Inc - Geismar Complex	CDS Number	08-16-1973
0180-0003	Honeywell International Inc - Geismar Complex	Emission Inventory	02-23-2004
22-2640650	Federal Tax ID	Federal Tax ID	11-21-1999
LAD041519067	Honeywell International	Hazardous Waste Notification	05-23-2003
LAD041519067	Honeywell International	Inactive & Abandoned Sites	11-01-1979
LA0006181	WPC File Number	LPDES Permit #	06-25-2003
WP1734	WPC State Permit Number	LWDPS Permit #	06-25-2003
LA-2356-L01	Radioactive Material License	Radiation License Number	09-20-2000
GD-005-0313	Site ID #	Solid Waste Facility No.	03-07-2001
P-0216	Site ID #	Solid Waste Facility No.	05-27-1993
16745	AlliedSignal Inc - Geismar Works	TEMPO Merge	05-29-2001
38811	Honeywell Inc - Geismar Complex	TEMPO Merge	05-02-2001
50001	Allied Chemical Co	TEMPO Merge	12-18-2001
76313	Allied Corp	TEMPO Merge	12-18-2001
8064	Allied Engineering	TEMPO Merge	12-11-2001
0180-0003	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70734LLDSGHWY31	TRI #	Toxic Release Inventory	07-14-2004
03-000185	UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-11-2002
WQC 980402-06	Water Quality Certification #	Water Certification	11-25-2002

Physical Location: 5525 Hwy 3115
Geismar, LA 70734

Main FAX: 2256424870
Main Phone: 2256422768

Mailing Address: PO Box 226
Geismar, LA 707340226

Location of Front Gate: 30° 13' 42" 49 hundredths latitude, 91° 3' 15" 66 hundredths longitude. Coordinate Method: GPS Code (Psuedo Range) Precise Position, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422768 (WP)	Air Permit Contact For
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422706 (WF)	Air Permit Contact For
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422768 (WP)	Hazardous Waste Permit Contact For
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422706 (WF)	Accident Prevention Contact for
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422768 (WP)	Water Billing Party for
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422768 (WP)	Accident Prevention Contact for
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422706 (WF)	Hazardous Waste Permit Contact For

TPOR0148

General Information

AI ID: 2082 Honeywell International Inc - Geismar Complex
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Air - Title V Regular Permit Initial

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422706 (WF)	Water Billing Party for
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422706 (WF)	Accident Prevention Billing Party for
Brad Campesi	PO Box 226 Geismar, LA 707340226	2256422768 (WP)	Accident Prevention Billing Party for
Lucius Gloston	PO Box 226 Geismar, LA 707340226		Solid Waste Billing Party for
Ritchie Hofmann	PO Box 226 Geismar, LA 707340226	2256424823 (WP)	Radiation Safety Officer for
Ritchie Hofmann	PO Box 226 Geismar, LA 707340226	2256422706 (WF)	Radiation Safety Officer for
Ritchie Hofmann	PO Box 226 Geismar, LA 707340226	chet.canova@honey	Radiation Safety Officer for
Ritchie Hofmann	PO Box 226 Geismar, LA 707340226	2252352938 (CP)	Radiation Safety Officer for
J. William Lessig	PO Box 226 Geismar, LA 707340226		Responsible Official for
J. William Lessig	PO Box 226 Geismar, LA 707340226		Air Billing Contact for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Honeywell International Inc	PO Box 226 Geismar, LA 707340226		Air Billing Party for
Honeywell International Inc	PO Box 226 Geismar, LA 707340226		Radiation License Billing Party for
Honeywell International Inc	PO Box 226 Geismar, LA 707340226		Owns

SIC Codes:

2819, Industrial inorganic chemicals, nec
2869, Industrial organic chemicals, nec

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT004	2-04 - Clarifier Diesel Generator Engine			750 horsepower		500 hr/yr (All Year)
EQT005	3-04 - HF Diesel Generator Engine			1135 horsepower		500 hr/yr (All Year)
EQT006	89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H2SO4)	263191 gallons				8760 hr/yr (All Year)
EQT007	89-15 - HF Tail Gas Scrubber System			1120 SCFM		8760 hr/yr (All Year)
EQT008	89-40 - Oleum (104.2% H2SO4) Storage Tank U-203	132340 gallons				8760 hr/yr (All Year)
EQT009	89-47 - Fluorspar Silo			32050 lb/hr		8760 hr/yr (All Year)
EQT010	89-48 - Fluorspar Use Silo No. 1			39680 lb/hr		8760 hr/yr (All Year)
EQT011	89-51 - Lime Storage Silo 1			23000 lb/hr		933 hr/yr (All Year)
EQT012	89-54 - Fluorspar Dryer			25 MM BTU/hr		8760 hr/yr (All Year)
EQT013	89-56 - HF Furnace No. 3 Air Heater Seal			24 MM BTU/hr		8760 hr/yr (All Year)
EQT014	89-56A - HF Furnace No. 3 Air Heater			24 MM BTU/hr		8760 hr/yr (All Year)
EQT015	89-57 - HF Furnace No. 4 Air Heater Seal			24 MM BTU/hr		8760 hr/yr (All Year)
EQT016	89-57A - HF Furnace No. 4 Air Heater			24 MM BTU/hr		8760 hr/yr (All Year)
EQT017	89-58 - Fluorspar Use Silo No. 2			46000 lb/hr		8760 hr/yr (All Year)
EQT018	89-62 - Clarifier Lime Silo			18400 lb/hr		408 hr/yr (All Year)
EQT019	89-63A - HF Residue Screws Sample Port No. 1					365 hr/yr (All Year)
EQT020	89-63B - HF Residue Screws Sample Port No. 2					365 hr/yr (All Year)
EQT021	89-63C - HF Residue Screws Sample Port No. 3					365 hr/yr (All Year)
EQT022	89-63D - HF Residue Screws Sample Port No. 4					365 hr/yr (All Year)
EQT023	89-65 - Aqueous HF Storage Vent Scrubber			5.42 MM gallons/yr		8760 hr/yr (All Year)
EQT024	89-72 - Fire Water Pump Engine #1			150 horsepower		500 hr/yr (All Year)
EQT025	89-74 - Fire Water Pump Engine #2			290 horsepower		500 hr/yr (All Year)
EQT026	89-83 - Unleaded Gasoline Storage Tank	4006 gallons				8760 hr/yr (All Year)
EQT027	1-96 HF Utility Boiler			50 MM BTU/hr		8760 hr/yr (All Year)
EQT028	1-96A - HF Additives Unit 1 Fume Scrubber			6 gallons/min		8760 hr/yr (All Year)
EQT029	1-97 - North Cooling Water Tower 1			10500 gallons/min		8760 hr/yr (All Year)
EQT030	1-02 - HF Plant South Cooling Water Tower			12000 gallons/min		8760 hr/yr (All Year)
EQT031	2-02 - Clarifier Diesel Pump Engine			715 horsepower		500 hr/yr (All Year)
EQT032	3-02A - Furnace Rotator Engine No. 1			101 horsepower		500 hr/yr (All Year)
EQT033	3-02B - Furnace Rotator Engine No. 2			101 horsepower		500 hr/yr (All Year)
EQT034	3-02C - Furnace Rotator Engine No. 3			101 horsepower		500 hr/yr (All Year)
EQT035	3-02D - Furnace Rotator Engine No. 4			101 horsepower		500 hr/yr (All Year)
EQT036	17-02 - Atlas Copco Air Compressor			250 horsepower		500 hr/yr (All Year)
EQT037	18-02 - Brambles Sullair Air Compressor			220 horsepower		500 hr/yr (All Year)
EQT038	19-02 - Ingersol Rand Air Compressor			85 horsepower		500 hr/yr (All Year)
EQT039	20-02 - Emergency River Water Pump			745 horsepower		500 hr/yr (All Year)
EQT040	21-02 - Emergency Sump Pump			225 horsepower		500 hr/yr (All Year)

INVENTORIES

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Activity Number: PER20030005
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Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT041	24-02 - HF Laboratory Hoods					8760 hr/yr (All Year)
EQT042	1-05 - Tank U-802	59 gallons				8760 hr/yr (All Year)
EQT043	2-05 - Tank U-804	212 gallons				8760 hr/yr (All Year)
EQT044	3-05 - Sulfuric Acid Tank	263191 gallons				8760 hr/yr (All Year)
EQT045	4-05 - Catalyst Transfer			15768 lb/yr		8760 hr/yr (All Year)
EQT046	5-05 - HF Additives Unit 2 Fume Scrubber					8760 hr/yr (All Year)
EQT047	10-05 - North Cooling Water Tower 2			7500 gallons/min		8760 hr/yr (All Year)
EQT048	11-05 - HF Furnace No. 1 Air Heater Seal			24 MM BTU/hr		8760 hr/yr (All Year)
EQT049	11-05A - HF Furnace No. 1			24 MM BTU/hr		8760 hr/yr (All Year)
EQT050	12-05 - HF Furnace No. 2 Air Heater Seal			24 MM BTU/hr		8760 hr/yr (All Year)
EQT051	12-05A - HF Furnace No. 2			24 MM BTU/hr		8760 hr/yr (All Year)
EQT052	89-71 - Clarifier Diesel Generator Engine			300 horsepower		500 hr/yr (All Year)
EQT053	Tank U-501					8760 hr/yr (All Year)
EQT054	Tank U-502	29087 gallons				8760 hr/yr (All Year)
EQT055	Tank U-711					8760 hr/yr (All Year)
EQT056	Additive Storage Tank					8760 hr/yr (All Year)
EQT057	Truck Loading					8760 hr/yr (All Year)
EQT058	Aqueous HF Loading Rack					8760 hr/yr (All Year)
EQT059	Additives Unit 1 Truck Loading Rack					8760 hr/yr (All Year)
EQT060	Additives Unit 2 Truck Loading Rack					8760 hr/yr (All Year)
EQT061	89-37 - HF Furnace Air Heater No. 1			24 MM BTU/hr		8760 hr/yr (All Year)
EQT062	89-38 - HF Furnace Air Heater No. 2			24 MM BTU/hr		8760 hr/yr (All Year)
EQT063	1-06 - Tank U-876	8750 gallons				8760 hr/yr (All Year)
EQT064	2-06 - Tank U-877	8750 gallons				8760 hr/yr (All Year)
FUG001	89-64 - HF Plant Fugitive Emissions					8760 hr/yr (All Year)
FUG002	2-96 - HF Additives Unit 1 Fugitives					8760 hr/yr (All Year)
FUG003	3-97 - Cooling Pond Fugitive Emissions					8760 hr/yr (All Year)
FUG004	4-02 - Clam Shell Fugitives			416500 tons/yr		833 hr/yr (All Year)
FUG005	5-02 - Gantry Fugitives			416500 tons/yr		833 hr/yr (All Year)
FUG006	6-02 - Belt 1-2 Transfer Fugitives			416500 tons/yr		833 hr/yr (All Year)
FUG007	7-02 - Belt 2-3 Transfer Fugitives			416500 tons/yr		833 hr/yr (All Year)
FUG008	8-02 - Belt 3-4 Transfer Fugitives			416500 tons/yr		833 hr/yr (All Year)
FUG009	9-02 - Belt 4-5 Transfer Fugitives			416500 tons/yr		833 hr/yr (All Year)
FUG010	10-02 - Spar Storage Building No. 1 Transfer Fugitives			416500 tons/yr		714 hr/yr (All Year)
FUG011	11-02 - Truck Loading Fugitives			416500 tons/yr		8760 hr/yr (All Year)
FUG012	12-02 - Haul Road Fugitives			416500 tons/yr		8760 hr/yr (All Year)
FUG013	13-02 - Spar Storage Building No. 2 Transfer Fugitives			416500 tons/yr		8760 hr/yr (All Year)

INVENTORIES

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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
FUG014	14-02 - Hopper Transfer Fugitives			416500 tons/yr		8760 hr/yr (All Year)
FUG015	15-02 - Grizzly Feeder Transfer Fugitives			416500 tons/yr		8760 hr/yr (All Year)
FUG016	16-02 - Grizzly Feeder Fugitives			416500 tons/yr		8760 hr/yr (All Year)
FUG017	25-02 - HF Lime Slaker Fugitives			14000 tons/yr		8760 hr/yr (All Year)
FUG018	6-05 - HF Additives Unit 2 Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP010	Entire Facility	EQT11 89-51 - Lime Storage Silo 1
GRP010	Entire Facility	EQT12 89-54 - Fluorspar Dryer
GRP010	Entire Facility	EQT18 89-62 - Clarifier Lime Silo
GRP010	Entire Facility	EQT19 89-63A - HF Residue Screws Sample Port No. 1
GRP010	Entire Facility	EQT20 89-63B - HF Residue Screws Sample Port No. 2
GRP010	Entire Facility	EQT21 89-63C - HF Residue Screws Sample Port No. 3
GRP010	Entire Facility	EQT22 89-63D - HF Residue Screws Sample Port No. 4
GRP010	Entire Facility	EQT26 89-83 - Unleaded Gasoline Storage Tank
GRP010	Entire Facility	EQT27 1-96 HF Utility Boiler
GRP010	Entire Facility	EQT41 24-02 - HF Laboratory Hoods
GRP010	Entire Facility	EQT45 4-05 - Catalyst Transfer
GRP010	Entire Facility	FUG3 3-97 - Cooling Pond Fugitive Emissions
GRP010	Entire Facility	GRP11 Tanks
GRP010	Entire Facility	GRP12 89-47, 89-48, and 89-58 Fluorspar Silos
GRP010	Entire Facility	GRP13 Engines, Compressors, and Pumps
GRP010	Entire Facility	GRP14 Cooling Towers
GRP010	Entire Facility	GRP15 Air Heaters
GRP010	Entire Facility	GRP16 12-02 and 25-02 Fugitives
GRP010	Entire Facility	GRP17 Group of 12 Fugitives
GRP010	Entire Facility	GRP18 Tanks to Scrubbers
GRP010	Entire Facility	GRP19 Loading Racks
GRP010	Entire Facility	GRP20 2-04 and 3-04 Engines
GRP010	Entire Facility	GRP21 Scrubbers
GRP010	Entire Facility	GRP22 89-64, 2-96, and 6-05 Fugitives
GRP010	Entire Facility	GRP23 Furnaces
GRP011	Tanks	EQT6 89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H2SO4)
GRP011	Tanks	EQT8 89-40 - Oleum (104.2% H2SO4) Storage Tank U-203
GRP011	Tanks	EQT42 1-05 - Tank U-802

INVENTORIES

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Subject Item Groups:

ID	Description	Included Components (from Above)
GRP011	Tanks	EQT43 2-05 - Tank U-804
GRP011	Tanks	EQT44 3-05 - Sulfuric Acid Tank
GRP012	89-47, 89-48, and 89-58 Fluorspar Silos	EQT9 89-47 - Fluorspar Silo
GRP012	89-47, 89-48, and 89-58 Fluorspar Silos	EQT10 89-48 - Fluorspar Use Silo No. 1
GRP012	89-47, 89-48, and 89-58 Fluorspar Silos	EQT17 89-58 - Fluorspar Use Silo No. 2
GRP013	Engines, Compressors, and Pumps	EQT24 89-72 - Fire Water Pump Engine #1
GRP013	Engines, Compressors, and Pumps	EQT25 89-74 - Fire Water Pump Engine #2
GRP013	Engines, Compressors, and Pumps	EQT31 2-02 - Clarifier Diesel Pump Engine
GRP013	Engines, Compressors, and Pumps	EQT32 3-02A - Furnace Rotator Engine No. 1
GRP013	Engines, Compressors, and Pumps	EQT33 3-02B - Furnace Rotator Engine No. 2
GRP013	Engines, Compressors, and Pumps	EQT34 3-02C - Furnace Rotator Engine No. 3
GRP013	Engines, Compressors, and Pumps	EQT35 3-02D - Furnace Rotator Engine No. 4
GRP013	Engines, Compressors, and Pumps	EQT36 17-02 - Atlas Copco Air Compressor
GRP013	Engines, Compressors, and Pumps	EQT37 18-02 - Brambles Sullair Air Compressor
GRP013	Engines, Compressors, and Pumps	EQT38 19-02 - Ingersol Rand Air Compressor
GRP013	Engines, Compressors, and Pumps	EQT39 20-02 - Emergency River Water Pump
GRP013	Engines, Compressors, and Pumps	EQT40 21-02 - Emergency Sump Pump
GRP013	Engines, Compressors, and Pumps	EQT52 89-71 - Clarifier Diesel Generator Engine
GRP013	Engines, Compressors, and Pumps	EQT29 1-97 - North Cooling Water Tower 1
GRP014	Cooling Towers	EQT30 1-02 - HF Plant South Cooling Water Tower
GRP014	Cooling Towers	EQT47 10-05 - North Cooling Water Tower 2
GRP014	Cooling Towers	EQT13 89-56 - HF Furnace No. 3 Air Heater Seal
GRP015	Air Heaters	EQT14 89-56A - HF Furnace No. 3 Air Heater
GRP015	Air Heaters	EQT15 89-57 - HF Furnace No. 4 Air Heater Seal
GRP015	Air Heaters	EQT16 89-57A - HF Furnace No. 4 Air Heater
GRP015	Air Heaters	EQT61 89-37 - HF Furnace Air Heater No. 1
GRP015	Air Heaters	EQT62 89-38 - HF Furnace Air Heater No. 2
GRP015	Air Heaters	FUG12 12-02 - Haul Road Fugitives
GRP016	12-02 and 25-02 Fugitives	FUG17 25-02 - HF Lime Slaker Fugitives
GRP016	12-02 and 25-02 Fugitives	FUG4 4-02 - Clam Shell Fugitives
GRP017	Group of 12 Fugitives	FUG5 5-02 - Gantry Fugitives
GRP017	Group of 12 Fugitives	FUG6 6-02 - Belt 1-2 Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG7 7-02 - Belt 2-3 Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG8 8-02 - Belt 3-4 Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG9 9-02 - Belt 4-5 Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG10 10-02 - Spar Storage Building No. 1 Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG11 11-02 - Truck Loading Fugitives
GRP017	Group of 12 Fugitives	

INVENTORIES

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Subject Item Groups:

ID	Description	Included Components (from Above)
GRP017	Group of 12 Fugitives	FUG13 13-02 - Spar Storage Building No. 2 Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG14 14-02 - Hopper Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG15 15-02 - Grizzly Feeder Transfer Fugitives
GRP017	Group of 12 Fugitives	FUG16 16-02 - Grizzly Feeder Fugitives
GRP018	Tanks to Scrubbers	EQT53 Tank U-501
GRP018	Tanks to Scrubbers	EQT54 Tank U-502
GRP018	Tanks to Scrubbers	EQT55 Tank U-711
GRP018	Tanks to Scrubbers	EQT56 Additive Storage Tank
GRP018	Tanks to Scrubbers	EQT63 1-06 - Tank U-876
GRP018	Tanks to Scrubbers	EQT64 2-06 - Tank U-877
GRP019	Loading Racks	EQT57 Truck Loading
GRP019	Loading Racks	EQT58 Aqueous HF Loading Rack
GRP019	Loading Racks	EQT59 Additives Unit 1 Truck Loading Rack
GRP019	Loading Racks	EQT60 Additives Unit 2 Truck Loading Rack
GRP020	2-04 and 3-04 Engines	EQT4 2-04 - Clarifier Diesel Generator Engine
GRP020	2-04 and 3-04 Engines	EQT5 3-04 - HF Diesel Generator Engine
GRP021	Scrubbers	EQT7 89-15 - HF Tail Gas Scrubber System
GRP021	Scrubbers	EQT23 89-65 - Aqueous HF Storage Vent Scrubber
GRP021	Scrubbers	EQT28 1-96A - HF Additives Unit 1 Fume Scrubber
GRP021	Scrubbers	EQT46 5-05 - HF Additives Unit 2 Fume Scrubber
GRP022	89-64, 2-96, and 6-05 Fugitives	FUG1 89-64 - HF Plant Fugitive Emissions
GRP022	89-64, 2-96, and 6-05 Fugitives	FUG2 2-96 - HF Additives Unit 1 Fugitives
GRP022	89-64, 2-96, and 6-05 Fugitives	FUG18 6-05 - HF Additives Unit 2 Fugitives
GRP023	Furnaces	EQT48 11-05 - HF Furnace No. 1 Air Heater Seal
GRP023	Furnaces	EQT49 11-05A - HF Furnace No. 1
GRP023	Furnaces	EQT50 12-05 - HF Furnace No. 2 Air Heater Seal
GRP023	Furnaces	EQT51 12-05A - HF Furnace No. 2

Relationships:

Subject Item	Relationship	Subject Item
EQT53 Tank U-501	Controlled by	EQT23 89-65 - Aqueous HF Storage Vent Scrubber
EQT54 Tank U-502	Controlled by	EQT23 89-65 - Aqueous HF Storage Vent Scrubber
EQT55 Tank U-711	Controlled by	EQT28 1-96A - HF Additives Unit 1 Fume Scrubber
EQT56 Additive Storage Tank	Controlled by	EQT46 5-05 - HF Additives Unit 2 Fume Scrubber
EQT57 Truck Loading	Controlled by	EQT7 89-15 - HF Tail Gas Scrubber System
EQT58 Aqueous HF Loading Rack	Controlled by	EQT23 89-65 - Aqueous HF Storage Vent Scrubber
EQT59 Additives Unit 1 Truck Loading Rack	Controlled by	EQT28 1-96A - HF Additives Unit 1 Fume Scrubber

INVENTORIES

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Air - Title V Regular Permit Initial

Relationships:

Subject Item	Relationship	Subject Item
EQT60 Additives Unit 2 Truck Loading Rack	Controlled by	EQT46 5-05 - HF Additives Unit 2 Fume Scrubber
EQT63 1-06 - Tank U-876	Controlled by	EQT7 89-15 - HF Tail Gas Scrubber System
EQT64 2-06 - Tank U-877	Controlled by	EQT7 89-15 - HF Tail Gas Scrubber System

Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT004	2-04 - Clarifier Diesel Generator Engine	120	2540	.67		20	815
EQT005	3-04 - HF Diesel Generator Engine	262.2	5546	.67		12	850
EQT006	89-10 - Sulfuric Acid Storage Tank U-202 (99.2% H2SO4)			.5		28	120
EQT007	89-15 - HF Tail Gas Scrubber System	23.8	1120	1		50	100
EQT008	89-40 - Oleum (104.2% H2SO4) Storage Tank U-203			.5		21.75	120
EQT009	89-47 - Fluorspar Silo	411.5	2800	.38		64	
EQT010	89-48 - Fluorspar Use Silo No. 1	411.5	2800	.38		64	
EQT011	89-51 - Lime Storage Silo 1	30.6	900	.79		76	
EQT012	89-54 - Fluorspar Dryer	218.4	49811	2.2		100	200
EQT013	89-56 - HF Furnace No. 3 Air Heater Seal	23.72	3622	1.8		20	1000
EQT014	89-56A - HF Furnace No. 3 Air Heater	16.32	3622	2.17		38	525
EQT015	89-57 - HF Furnace No. 4 Air Heater Seal	23.72	3622	1.8		20	1000
EQT016	89-57A - HF Furnace No. 4 Air Heater	16.32	3622	2.17		38	525
EQT017	89-58 - Fluorspar Use Silo No. 2	67.2	2800	.94		100	
EQT018	89-62 - Clarifier Lime Silo	27.7	900	.83		110	
EQT019	89-63A - HF Residue Screws Sample Port No. 1				15		500
EQT020	89-63B - HF Residue Screws Sample Port No. 2				15		500
EQT021	89-63C - HF Residue Screws Sample Port No. 3				15		500
EQT022	89-63D - HF Residue Screws Sample Port No. 4				15		500
EQT023	89-65 - Aqueous HF Storage Vent Scrubber		.04	.5		55	75
EQT024	89-72 - Fire Water Pump Engine #1			.67		12	
EQT025	89-74 - Fire Water Pump Engine #2			.5		12	
EQT026	89-83 - Unleaded Gasoline Storage Tank			.15		11	
EQT027	1-96 HF Utility Boiler	34	33660	16.5		25	560
EQT028	1-96A - HF Additives Unit 1 Fume Scrubber	36	50	.17		40	130
EQT029	1-97 - North Cooling Water Tower 1	30	277088	14		32	97
EQT030	1-02 - HF Plant South Cooling Water Tower						
EQT031	2-02 - Clarifier Diesel Pump Engine						
EQT032	3-02A - Furnace Rotator Engine No. 1						
EQT033	3-02B - Furnace Rotator Engine No. 2						
EQT034	3-02C - Furnace Rotator Engine No. 3						
EQT035	3-02D - Furnace Rotator Engine No. 4						
EQT036	17-02 - Atlas Copco Air Compressor			.5		8	
EQT037	18-02 - Brambles Sullair Air Compressor			.5		8	
EQT038	19-02 - Ingersol Rand Air Compressor			.25		8	

INVENTORIES

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Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT039	20-02 - Emergency River Water Pump			.5		40	
EQT040	21-02 - Emergency Sump Pump						
EQT042	1-05 - Tank U-802						
EQT043	2-05 - Tank U-804						
EQT044	3-05 - Sulfuric Acid Tank						
EQT046	5-05 - HF Additives Unit 2 Fume Scrubber	36	50	.17		40	130
EQT047	10-05 - North Cooling Water Tower 2	30	277088	14		32	97
EQT048	11-05 - HF Furnace No. 1 Air Heater Seal	23.72	3622	1.8		20	1000
EQT049	11-05A - HF Furnace No. 1	16.32	3622	2.17		38	525
EQT050	12-05 - HF Furnace No. 2 Air Heater Seal	23.72	3622	1.8		20	1000
EQT051	12-05A - HF Furnace No. 2	16.32	3622	2.17		38	525
EQT052	89-71 - Clarifier Diesel Generator Engine			.67		20	
EQT053	Tank U-501						
EQT054	Tank U-502						
EQT055	Tank U-711						
EQT056	Additive Storage Tank						
EQT061	89-37 - HF Furnace Air Heater No. 1	106.9	8510	1.3		20	1000
EQT062	89-38 - HF Furnace Air Heater No. 2	106.9	8510	1.3		20	1000
EQT063	1-06 - Tank U-876						
EQT064	2-06 - Tank U-877						

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP010	350	MM Lb/Yr	0510 - Industrial Inorganic Acids N.E.C. (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
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Air - Title V Regular Permit Initial

All phases

	PM_{10}			SO_2			NOx			CO			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 004 2-04	0.25	0.25	0.06	1.54	1.54	0.38	7.83	7.83	1.96	4.30	4.30	1.08	0.09	0.09	0.02
EQT 005 3-04	0.91	1.00	0.23	4.17	4.59	1.04	15.67	17.27	3.92	19.30	21.27	4.83	2.07	2.28	0.52
EQT 007 89-15				10.36	11.91	45.38									
EQT 009 89-47	0.48	0.48	2.10												
EQT 010 89-48	0.48	0.48	2.10												
EQT 011 89-51	0.15	0.15	0.07												
EQT 012 89-54	4.47	4.47	19.59	0.01	0.01	0.06	3.02	3.02	13.23	2.06	2.06	9.02	0.13	0.13	0.59
EQT 013 89-56	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.62	0.62	2.69	0.99	0.99	4.33	0.06	0.06	0.28
EQT 014 89-56A	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.62	0.62	2.69	0.99	0.99	4.33	0.06	0.06	0.28
EQT 015 89-57	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.55	0.55	2.39	0.99	0.99	4.33	0.06	0.06	0.28
EQT 016 89-57A	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.55	0.55	2.39	0.99	0.99	4.33	0.06	0.06	0.28
EQT 017 89-58	0.48	0.48	2.10												
EQT 018 89-62	0.15	0.15	0.03												
EQT 024 89-72	0.33	0.33	0.08	0.31	0.31	0.08	4.65	4.65	1.16	1.00	1.00	0.25	0.31	0.31	0.08
EQT 025 89-74	0.64	0.64	0.16	0.59	0.59	0.15	8.99	8.99	2.25	1.94	1.94	0.48	0.61	0.61	0.15
EQT 026 89-83													0.28	32.96	1.23
EQT 027 1-96	0.37	0.37	1.63	0.03	0.03	0.13	4.90	4.90	21.47	4.12	4.12	18.04	0.27	0.27	1.18
EQT 028 1-96A													< 0.01	< 0.01	< 0.01

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EMISSION RATES FOR CRITERIA POLLUTANTS

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Air - Title V Regular Permit Initial

All phases

	PM_{10}			SO_2			NOx			CO			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 029 1-97	1.56	1.56	6.84												
EQT 030 1-02	1.20	1.20	5.26												
EQT 031 2-02	0.37	0.37	0.09	2.89	2.89	0.72	8.40	8.40	2.10	2.03	2.03	0.51	0.11	0.11	0.03
EQT 032 3-02A	0.02	0.02	0.01	0.04	0.04	0.01	1.45	1.45	0.36	0.29	0.29	0.07	0.06	0.06	0.01
EQT 033 3-02B	0.02	0.02	0.01	0.04	0.04	0.01	1.45	1.45	0.36	0.29	0.29	0.07	0.06	0.06	0.01
EQT 034 3-02C	0.02	0.02	0.01	0.04	0.04	0.01	1.45	1.45	0.36	0.29	0.29	0.07	0.06	0.06	0.01
EQT 035 3-02D	0.02	0.02	0.01	0.04	0.04	0.01	1.45	1.45	0.36	0.29	0.29	0.07	0.06	0.06	0.01
EQT 036 17-02	0.55	0.55	0.14	0.51	0.51	0.13	7.75	7.75	1.94	1.67	1.67	0.42	0.52	0.52	0.13
EQT 037 18-02	0.48	0.48	0.12	0.45	0.45	0.11	6.82	6.82	1.71	1.47	1.47	0.37	0.46	0.46	0.11
EQT 038 19-02	0.19	0.19	0.05	0.17	0.17	0.04	2.64	2.64	0.66	0.57	0.57	0.14	0.18	0.18	0.04
EQT 039 20-02	0.52	0.52	0.13	3.01	3.01	0.75	17.88	17.88	4.47	4.10	4.10	1.02	0.48	0.48	0.12
EQT 040 21-02	0.50	0.50	0.12	0.46	0.46	0.12	6.98	6.98	1.74	1.50	1.50	0.38	0.47	0.47	0.12
EQT 041 24-02													0.03	0.03	0.11
EQT 045 4-05	< 0.01	1.65	< 0.01												
EQT 046 5-05													< 0.01	< 0.01	< 0.01
EQT 047 10-05	1.12	1.12	4.89												
EQT 048 11-05	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.62	0.62	2.69	0.99	0.99	4.33	0.06	0.06	0.28
EQT 049 11-05A	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.62	0.62	2.69	0.99	0.99	4.33	0.06	0.06	0.28

EMISSION RATES FOR CRITERIA POLLUTANTS

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Air - Title V Regular Permit Initial

All phases

	PM_{10}			SO_2			NOx			CO			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 050 12-05	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.62	0.62	2.69	0.99	0.99	4.33	0.06	0.06	0.28
EQT 051 12-05A	0.09	0.09	0.39	< 0.01	< 0.01	0.03	0.62	0.62	2.69	0.99	0.99	4.33	0.06	0.06	0.28
EQT 052 89-71	0.66	0.66	0.17	0.62	0.62	0.15	9.30	9.30	2.33	2.00	2.00	0.50	0.63	0.63	0.16
EQT 061 89-37	0.18	0.18	0.78	0.01	0.01	0.06	1.76	1.76	7.71	1.98	1.98	8.66	0.13	0.13	0.57
EQT 062 89-38	0.18	0.18	0.78	0.01	0.01	0.06	1.26	1.26	5.52	1.98	1.98	8.66	0.13	0.13	0.57
FUG 001 89-64				6.65	6.65	29.12									
FUG 002 2-96													0.20	0.20	0.86
FUG 004 4-02	0.02	0.02	0.01												
FUG 005 5-02	0.02	0.02	0.01												
FUG 006 6-02	0.02	0.02	0.01												
FUG 007 7-02	0.02	0.02	0.01												
FUG 008 8-02	0.02	0.02	0.01												
FUG 009 9-02	0.02	0.02	0.01												
FUG 010 10-02	< 0.01	0.01	< 0.01												
FUG 011 11-02	< 0.01	< 0.01	< 0.01												
FUG 012 12-02	0.57	0.86	1.25												
FUG 013 13-02	< 0.01	< 0.01	< 0.01												
FUG 014 14-02	< 0.01	< 0.01	< 0.01												

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EMISSION RATES FOR CRITERIA POLLUTANTS

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All phases

	PM_{10}			SO_2			NOx			CO			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 015 15-02	< 0.01	< 0.01	0.01												
FUG 016 16-02	< 0.01	< 0.01	0.01												
FUG 017 25-02	0.18	0.20	0.77												
FUG 018 6-05													0.20	0.20	0.86

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 52.78 tons/yr

SO2: 78.76 tons/yr

NOx: 94.53 tons/yr

CO: 89.28 tons/yr

VOC: 9.73 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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All phases

	1,3-Butadiene			2,2,4-Trimethylpentane			Acetaldehyde			Acrolein			Arsenic (and compounds)		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 004 2-04	0.01	0.01	0.001				< 0.01	< 0.01	< 0.01	< 0.001	0.001	< 0.001			
EQT 005 3-04	< 0.001	< 0.001	< 0.001												
EQT 006 89-10															
EQT 007 89-15															
EQT 008 89-40															
EQT 009 89-47													< 0.001	< 0.001	< 0.001
EQT 010 89-48													< 0.001	< 0.001	< 0.001
EQT 012 89-54													0.002	0.002	0.01
EQT 013 89-56															
EQT 014 89-56A															
EQT 015 89-57															
EQT 016 89-57A															
EQT 017 89-58													< 0.001	< 0.001	< 0.001
EQT 019 89-63A															
EQT 020 89-63B															
EQT 021 89-63C															
EQT 022 89-63D															
EQT 023 89-65															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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All phases

	Benzene			Chlorine			Cumene			Ethyl benzene			Formaldehyde		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 004 2-04	< 0.01	< 0.01	< 0.01							< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
EQT 005 3-04	< 0.01	< 0.01	< 0.01							< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
EQT 006 89-10															
EQT 007 89-15															
EQT 008 89-40															
EQT 009 89-47															
EQT 010 89-48															
EQT 012 89-54	< 0.01	< 0.01	< 0.01												
EQT 013 89-56	< 0.01	< 0.01	< 0.01												
EQT 014 89-56A	< 0.01	< 0.01	< 0.01												
EQT 015 89-57	< 0.01	< 0.01	< 0.01												
EQT 016 89-57A	< 0.01	< 0.01	< 0.01												
EQT 017 89-58															
EQT 019 89-63A															
EQT 020 89-63B															
EQT 021 89-63C															
EQT 022 89-63D															
EQT 023 89-65															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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All phases

	Hydrofluoric acid			Mercury (and compounds)			Methanol			Methyl Tertiary Butyl Ether			Naphthalene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 004 2-04													< 0.001	< 0.001	< 0.001
EQT 005 3-04													< 0.001	< 0.001	< 0.001
EQT 006 89-10															
EQT 007 89-15	0.21	0.24	0.90												
EQT 008 89-40															
EQT 009 89-47															
EQT 010 89-48															
EQT 012 89-54				< 0.01	< 0.01	< 0.01									
EQT 013 89-56				< 0.01	< 0.01	< 0.01									
EQT 014 89-56A				< 0.01	< 0.01	< 0.01									
EQT 015 89-57				< 0.01	< 0.01	< 0.01									
EQT 016 89-57A				< 0.01	< 0.01	< 0.01									
EQT 017 89-58															
EQT 019 89-63A															
EQT 020 89-63B															
EQT 021 89-63C															
EQT 022 89-63D															
EQT 023 89-65	0.02	0.05	0.09												

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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All phases

	Nitric acid			Ozone Depleting Substances			Sulfur Trioxide			Sulfuric acid			Toluene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 004 2-04													< 0.01	< 0.01	< 0.01
EQT 005 3-04													< 0.01	< 0.01	< 0.01
EQT 006 89-10										< 0.01	0.01	0.03			
EQT 007 89-15															
EQT 008 89-40							< 0.01	0.01	0.03	< 0.01	0.01	0.01			
EQT 009 89-47															
EQT 010 89-48															
EQT 012 89-54													< 0.01	< 0.01	< 0.01
EQT 013 89-56													< 0.01	< 0.01	< 0.01
EQT 014 89-56A													< 0.01	< 0.01	< 0.01
EQT 015 89-57													< 0.01	< 0.01	< 0.01
EQT 016 89-57A													< 0.01	< 0.01	< 0.01
EQT 017 89-58															
EQT 019 89-63A							7.20	7.20	1.31						
EQT 020 89-63B							7.20	7.20	1.31						
EQT 021 89-63C							7.20	7.20	1.31						
EQT 022 89-63D							7.20	7.20	1.31						
EQT 023 89-65															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 004 2-04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
EQT 005 3-04	< 0.01	< 0.01	< 0.01			
EQT 006 89-10						
EQT 007 89-15						
EQT 008 89-40						
EQT 009 89-47						
EQT 010 89-48						
EQT 012 89-54						
EQT 013 89-56						
EQT 014 89-56A						
EQT 015 89-57						
EQT 016 89-57A						
EQT 017 89-58						
EQT 019 89-63A						
EQT 020 89-63B						
EQT 021 89-63C						
EQT 022 89-63D						
EQT 023 89-65						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	1,3-Butadiene			2,2,4-Trimethylpentane			Acetaldehyde			Acrolein			Arsenic (and compounds)		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 024 89-72															
EQT 025 89-74															
EQT 026 89-83				< 0.01	0.04	< 0.01									
EQT 027 1-96															
EQT 028 1-96A															
EQT 029 1-97													< 0.001	0.001	< 0.001
EQT 030 1-02													< 0.001	0.001	< 0.001
EQT 031 2-02															
EQT 032 3-02A															
EQT 033 3-02B															
EQT 034 3-02C															
EQT 035 3-02D															
EQT 036 17-02															
EQT 037 18-02															
EQT 038 19-02															
EQT 039 20-02															
EQT 040 21-02															
EQT 041 24-02															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Benzene			Chlorine			Cumene			Ethyl benzene			Formaldehyde		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 024 89-72													0.07	0.07	0.02
EQT 025 89-74													0.13	0.13	0.03
EQT 026 89-83	< 0.01	0.12	< 0.01				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01			
EQT 027 1-96	< 0.01	< 0.01	< 0.01												
EQT 028 1-96A															
EQT 029 1-97				0.05	0.05	0.21									
EQT 030 1-02				< 0.01	< 0.01	< 0.01									
EQT 031 2-02													< 0.01	< 0.01	< 0.01
EQT 032 3-02A													0.05	0.05	0.01
EQT 033 3-02B													0.05	0.05	0.01
EQT 034 3-02C													0.05	0.05	0.01
EQT 035 3-02D													0.05	0.05	0.01
EQT 036 17-02													0.12	0.12	0.03
EQT 037 18-02													0.10	0.10	0.03
EQT 038 19-02													0.04	0.04	0.01
EQT 039 20-02													< 0.01	< 0.01	< 0.01
EQT 040 21-02													0.10	0.10	0.03
EQT 041 24-02															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Hydrofluoric acid			Mercury (and compounds)			Methanol			Methyl Tertiary Butyl Ether			Naphthalene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 024 89-72															
EQT 025 89-74															
EQT 026 89-83										0.02	2.17	0.08			
EQT 027 1-96															
EQT 028 1-96A	< 0.01	0.18	0.03												
EQT 029 1-97															
EQT 030 1-02															
EQT 031 2-02															
EQT 032 3-02A															
EQT 033 3-02B															
EQT 034 3-02C															
EQT 035 3-02D															
EQT 036 17-02															
EQT 037 18-02															
EQT 038 19-02															
EQT 039 20-02															
EQT 040 21-02															
EQT 041 24-02							0.03	0.03	0.11						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Nitric acid			Ozone Depleting Substances			Sulfur Trioxide			Sulfuric acid			Toluene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 024 89-72															
EQT 025 89-74															
EQT 026 89-83													< 0.01	0.14	< 0.01
EQT 027 1-96													< 0.01	< 0.01	< 0.01
EQT 028 1-96A															
EQT 029 1-97															
EQT 030 1-02															
EQT 031 2-02															
EQT 032 3-02A															
EQT 033 3-02B															
EQT 034 3-02C															
EQT 035 3-02D															
EQT 036 17-02															
EQT 037 18-02															
EQT 038 19-02															
EQT 039 20-02															
EQT 040 21-02															
EQT 041 24-02															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 024 89-72						
EQT 025 89-74						
EQT 026 89-83	< 0.01	0.04	< 0.01	< 0.01	0.11	< 0.01
EQT 027 1-96						
EQT 028 1-96A						
EQT 029 1-97						
EQT 030 1-02						
EQT 031 2-02						
EQT 032 3-02A						
EQT 033 3-02B						
EQT 034 3-02C						
EQT 035 3-02D						
EQT 036 17-02						
EQT 037 18-02						
EQT 038 19-02						
EQT 039 20-02						
EQT 040 21-02						
EQT 041 24-02						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	1,3-Butadiene			2,2,4-Trimethylpentane			Acetaldehyde			Acrolein			Arsenic (and compounds)		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 042 1-05															
EQT 043 2-05															
EQT 044 3-05															
EQT 046 5-05															
EQT 047 10-05													< 0.001	< 0.001	< 0.001
EQT 048 11-05															
EQT 049 11-05A															
EQT 050 12-05															
EQT 051 12-05A															
EQT 052 89-71															
EQT 061 89-37															
EQT 062 89-38															
FUG 001 89-64													0.04	0.04	0.18
FUG 002 2-96															
FUG 003 3-97															
FUG 004 4-02													< 0.001	< 0.001	< 0.001
FUG 005 5-02													< 0.001	< 0.001	< 0.001
FUG 006 6-02													< 0.001	< 0.001	< 0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Benzene			Chlorine			Cumene			Ethyl benzene			Formaldehyde		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 042 1-05															
EQT 043 2-05															
EQT 044 3-05															
EQT 046 5-05															
EQT 047 10-05				0.05	0.05	0.21									
EQT 048 11-05	< 0.01	< 0.01	< 0.01												
EQT 049 11-05A	< 0.01	< 0.01	< 0.01												
EQT 050 12-05	< 0.01	< 0.01	< 0.01												
EQT 051 12-05A	< 0.01	< 0.01	< 0.01												
EQT 052 89-71													0.14	0.14	0.03
EQT 061 89-37	< 0.01	< 0.01	< 0.01												
EQT 062 89-38	< 0.01	< 0.01	< 0.01												
FUG 001 89-64															
FUG 002 2-96															
FUG 003 3-97															
FUG 004 4-02															
FUG 005 5-02															
FUG 006 6-02															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Hydrofluoric acid			Mercury (and compounds)			Methanol			Methyl Tertiary Butyl Ether			Naphthalene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 042 1-05															
EQT 043 2-05															
EQT 044 3-05															
EQT 046 5-05	< 0.01	0.18	0.03												
EQT 047 10-05															
EQT 048 11-05				< 0.01	< 0.01	< 0.01									
EQT 049 11-05A				< 0.01	< 0.01	< 0.01									
EQT 050 12-05				< 0.01	< 0.01	< 0.01									
EQT 051 12-05A				< 0.01	< 0.01	< 0.01									
EQT 052 89-71															
EQT 061 89-37				< 0.01	< 0.01	< 0.01									
EQT 062 89-38				< 0.01	< 0.01	< 0.01									
FUG 001 89-64	1.27	1.27	5.56												
FUG 002 2-96	0.02	0.02	0.10												
FUG 003 3-97	0.02	0.02	0.07												
FUG 004 4-02															
FUG 005 5-02															
FUG 006 6-02															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Nitric acid			Ozone Depleting Substances			Sulfur Trioxide			Sulfuric acid			Toluene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 042 1-05	< 0.01	< 0.01	< 0.01												
EQT 043 2-05	< 0.01	< 0.01	< 0.01												
EQT 044 3-05										< 0.01	< 0.01	0.04			
EQT 046 5-05															
EQT 047 10-05															
EQT 048 11-05													< 0.01	< 0.01	< 0.01
EQT 049 11-05A													< 0.01	< 0.01	< 0.01
EQT 050 12-05													< 0.01	< 0.01	< 0.01
EQT 051 12-05A													< 0.01	< 0.01	< 0.01
EQT 052 89-71															
EQT 061 89-37													< 0.01	< 0.01	< 0.01
EQT 062 89-38													< 0.01	< 0.01	< 0.01
FUG 001 89-64	0.03	0.03	0.12	1.95	1.95	8.55	0.02	0.02	0.09	0.57	0.57	2.49			
FUG 002 2-96															
FUG 003 3-97															
FUG 004 4-02															
FUG 005 5-02															
FUG 006 6-02															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 042 1-05						
EQT 043 2-05						
EQT 044 3-05						
EQT 046 5-05						
EQT 047 10-05						
EQT 048 11-05						
EQT 049 11-05A						
EQT 050 12-05						
EQT 051 12-05A						
EQT 052 89-71						
EQT 061 89-37						
EQT 062 89-38						
FUG 001 89-64						
FUG 002 2-96						
FUG 003 3-97						
FUG 004 4-02						
FUG 005 5-02						
FUG 006 6-02						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	1,3-Butadiene			2,2,4-Trimethylpentane			Acetaldehyde			Acrolein			Arsenic (and compounds)		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 007 7-02													< 0.001	< 0.001	< 0.001
FUG 008 8-02													< 0.001	< 0.001	< 0.001
FUG 009 9-02													< 0.001	< 0.001	< 0.001
FUG 010 10-02													< 0.001	< 0.001	< 0.001
FUG 011 11-02													< 0.001	< 0.001	< 0.001
FUG 013 13-02													< 0.001	< 0.001	< 0.001
FUG 014 14-02													< 0.001	< 0.001	< 0.001
FUG 015 15-02													< 0.001	< 0.001	< 0.001
FUG 016 16-02													< 0.001	< 0.001	< 0.001
FUG 018 6-05															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Benzene			Chlorine			Cumene			Ethyl benzene			Formaldehyde		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 007 7-02															
FUG 008 8-02															
FUG 009 9-02															
FUG 010 10-02															
FUG 011 11-02															
FUG 013 13-02															
FUG 014 14-02															
FUG 015 15-02															
FUG 016 16-02															
FUG 018 6-05															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Hydrofluoric acid			Mercury (and compounds)			Methanol			Methyl Tertiary Butyl Ether			Naphthalene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 007 7-02															
FUG 008 8-02															
FUG 009 9-02															
FUG 010 10-02															
FUG 011 11-02															
FUG 013 13-02															
FUG 014 14-02															
FUG 015 15-02															
FUG 016 16-02															
FUG 018 6-05	0.02	0.02	0.10												

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Nitric acid			Ozone Depleting Substances			Sulfur Trioxide			Sulfuric acid			Toluene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 007 7-02															
FUG 008 8-02															
FUG 009 9-02															
FUG 010 10-02															
FUG 011 11-02															
FUG 013 13-02															
FUG 014 14-02															
FUG 015 15-02															
FUG 016 16-02															
FUG 018 6-05															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

All phases

	Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 007 7-02						
FUG 008 8-02						
FUG 009 9-02						
FUG 010 10-02						
FUG 011 11-02						
FUG 013 13-02						
FUG 014 14-02						
FUG 015 15-02						
FUG 016 16-02						
FUG 018 6-05						

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,3-Butadiene: 0.001 tons/yr

2,2,4-Trimethylpentane: <0.01 tons/yr

Acetaldehyde: <0.01 tons/yr

Acrolein: <0.001 tons/yr

Arsenic (and compounds): 0.18 tons/yr

Benzene: <0.01 tons/yr

Chlorine: 0.42 tons/yr

Cumene: <0.01 tons/yr

Ethyl benzene: <0.01 tons/yr

Formaldehyde: 0.22 tons/yr

Hydrofluoric acid: 6.88 tons/yr

All phases

Mercury (and compounds): <0.01 tons/yr
Methanol: 0.11 tons/yr
Methyl Tertiary Butyl Ether: 0.08 tons/yr
n-Hexane: <0.01 tons/yr
Naphthalene: <0.001 tons/yr
Nitric acid: 0.12 tons/yr
Ozone Depleting Substances: 8.55 tons/yr
Sulfur Trioxide: 5.36 tons/yr
Sulfuric acid: 2.57 tons/yr
Toluene: <0.01 tons/yr
Xylene (mixed isomers): <0.01 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 2082 - Honeywell International Inc - Geismar Complex
Activity Number: PER20030005
Permit Number: 2394-V0
Air - Title V Regular Permit Initial

EQT007 89-15 - HF Tail Gas Scrubber System

1 Flow rate >= 80 gallons/min - Water Scrubber. Permittee shall maintain the SiF4 removal efficiency from overall scrubber system at no less than 99%. [LAC 33:III.501.C.6]

2 Flow rate >= 40 gallons/min - SO2 Scrubber. Permittee shall maintain the SiF4 removal efficiency from overall scrubber system at no less than 99%. [LAC 33:III.501.C.6]

3 Hydrogen fluoride >= 99 % by weight. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

EQT011 89-51 - Lime Storage Silo 1

4 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

5 Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/scf. [LAC 33:III.501.C.6]

6 Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

EQT012 89-54 - Fluorspar Dryer

7 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

8 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

9 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

10 Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/scf. [LAC 33:III.501.C.6]

11 Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

12 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emissions are controlled by a baghouse which is considered MACT. [LAC 33:III.5109.A]

EQT018 89-62 - Clarifier Lime Silo

13 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

14 Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/scf. [LAC 33:III.501.C.6]

EQT018 89-62 - Clarifier Lime Silo

15 Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

EQT023 89-65 - Aqueous HF Storage Vent Scrubber

16 Flow rate >= 0.7 gallons/min. Permittee shall maintain the HF removal efficiency at no less than 99%. [LAC 33:III.501.C.6]

17 Hydrogen fluoride >= 99 % by weight. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

EQT026 89-83 - Unleaded Gasoline Storage Tank

18 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

19 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

20 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

21 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class I and/or Class II TAP less than the MER (facility wide). No further control is required. [LAC 33:III.5109.A]

EQT027 1-96 HF Utility Boiler

22 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

23 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

24 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.1.a.i]
Which Months: May-Sep Statistical Basis: None specified

25 Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition. [LAC 33:III.2201.H.9]

26 Fuel monitored by the regulation's specified method(s) daily. Analyze the fuel gas composition according to the methods listed in LAC 33:III.2201.G.5.g. [LAC 33:III.2201.H.9]
Which Months: May-Sep Statistical Basis: None specified

27 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]

28 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]

29 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.I.2]

30 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]

EQT027 1-96 HF Utility Boiler

31 The HF Utility Boiler, Emission Point 1-96, shall comply with the applicable requirements of 40 CFR 60.48c, New Source Performance Standards, Subpart Dc - Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units. [LAC 33:III.501.C.6]

32 Boiler is fired on natural gas only. Honeywell shall comply with necessary recordkeeping as provided in 40 CFR 60 Subpart Dc. [40 CFR 60.Subpart Dc, LAC 33:III.22]

33 Submit an initial Notification per the requirements of 40 CFR 63.9(b). Heater is not subject to the emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, recordkeeping and reporting requirements of this subpart or any other requirements in subpart A of 40 CFR Part 63. [40 CFR 63.7506(b)(2)]

34 Submit an initial Notification per the requirements of 40 CFR 63.9(b). Heater is not subject to the emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, recordkeeping and reporting requirements of this subpart or any other requirements in subpart A of 40 CFR Part 63. [40 CFR 63.7506(b)(2)]

EQT028 1-96A - HF Additives Unit 1 Fume Scrubber

35 Flow rate >= 6.5 gallons/min per design. Permittee shall maintain the HF removal efficiency at no less than 99%. [LAC 33:III.501.C.6]

36 Hydrogen fluoride >= 99 % by weight. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

EQT041 24-02 - HF Laboratory Hoods

37 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT045 4-05 - Catalyst Transfer

38 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

EQT046 5-05 - HF Additives Unit 2 Fume Scrubber

39 Flow rate >= 6.5 gallons/min per design. Permittee shall maintain the HF removal efficiency at no less than 99%. [LAC 33:III.501.C.6]

40 Hydrogen fluoride >= 99 % by weight. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

FUG003 3-97 - Cooling Pond Fugitive Emissions

41 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

FUG012 12-02 - Haul Road Fugitives

42 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

FUG017 25-02 - HF Lime Slaker Fugitives

43 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

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44 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
45 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
46 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
47 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
48 2,2,4-Trimethylpentane < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
49 Arsenic (and compounds) <= 0.18 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
50 Chlorine <= 0.42 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
51 Carbon monoxide <= 89.28 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
52 Nitrogen oxides <= 94.53 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
53 Particulate matter (10 microns or less) <= 52.78 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
54 Toluene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
55 VOC, Total <= 9.73 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
56 Cumene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
57 Ethyl benzene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
58 Formaldehyde <= 0.22 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
59 Sulfuric acid <= 2.57 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

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60 Hydrofluoric acid <= 6.88 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

61 Mercury (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

62 Arsenic (and compounds) <= 0.18 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

63 Sulfur Trioxide <= 5.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

64 Nitric acid <= 0.12 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

65 Methanol <= 0.11 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

66 Methyl Tertiary Butyl Ether <= 0.08 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

67 Sulfur dioxide <= 78.76 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

68 Ozone Depleting Substances <= 8.55 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

69 1,3-Butadiene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

70 Acetaldehyde < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

71 Acrolein < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

72 Benzene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

73 Naphthalene < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

74 n-Hexane < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

75 Xylene (mixed isomers) < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

76 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]

77 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]

78 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]

79 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]

80 Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991. [LAC 33:III.5107.A.1]

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81 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

82 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]

83 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]

84 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]

85 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]

86 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]

87 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]

88 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. [LAC 33:III.5109.A]

89 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]

90 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]

91 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]

92 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]

93 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]

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94 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]

95 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]

96 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]

97 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]

98 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]

99 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]

100 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]

101 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]

102 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]

103 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]

104 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]

105 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]

106 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]

107 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]

108 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]

109 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]

110 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]

111 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]

112 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]

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113 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]

114 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]

115 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]

116 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]

117 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]

118 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

119 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]

120 Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]

121 Benzene < 1 Mg/yr (1.1 ton/yr) total quantity. Subpart FF. [40 CFR 61.342(d)(2)(i)]
Which Months: All Year Statistical Basis: None specified

122 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]

123 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

124 Submit report: Due whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more. Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3). Subpart FF. [40 CFR 61.357(b)]

125 Comply with the emission limitations and established parameter ranges at all times except during periods of startup, shutdown, malfunction, or non-operation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which 40 CFR 63 Subpart YY applies. Subpart YY. [40 CFR 63.1108(a)(1)]

126 Follow the applicable provisions of the startup, shutdown, malfunction plan required by 40 CFR 63.1111 during periods of startup, shutdown, or malfunction. However, if a startup, shutdown, malfunction or period of non-operation of one portion of an affected source does not affect the ability of a particular emission point to comply with the specific provisions to which it is subject, then that emission point shall still be required to comply with the applicable provisions of 40 CFR 63 Subpart YY and any of the subparts that are referenced by 40 CFR 63 Subpart YY during startup, shutdown, malfunction, or period of non-operation. Subpart YY. [40 CFR 63.1108(a)(1)]

127 Comply with the equipment leak requirements at all times except during periods of startup, shutdown, malfunction, process unit shutdown, or non-operation of the affected source (or specific portion thereof) in which the lines are drained and depressurized resulting in cessation of the emissions to which equipment leak requirements apply. Subpart YY. [40 CFR 63.1108(a)(2)]

128 Implement, to the extent reasonably available, measures to prevent or minimize excess emissions during startups, shutdowns, and malfunctions. Identify the measures to be taken in the startup, shutdown, and malfunction plan (if applicable). Subpart YY. [40 CFR 63.1108(a)(5)]

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129 Correct malfunctions as soon as practical after their occurrence and/or in accordance with the startup, shutdown, and malfunction plan developed as specified under 40 CFR 63.1111. Subpart YY. [40 CFR 63.1108(a)(6)]

130 Keep copies of notifications, reports and records required by 40 CFR 63 Subpart YY and subparts referenced by 40 CFR 63 Subpart YY for at least 5 years, unless otherwise specified, except as provided in 40 CFR 63.1109(b). Subpart YY. [40 CFR 63.1109(a)]

131 Maintain all records required to be maintained by 40 CFR 63 Subpart YY or a subpart referenced by 40 CFR 63 Subpart YY in such a manner that they can be readily accessed and are suitable for inspection. Retain the most recent 2 years of records onsite or make accessible to an inspector while onsite. The records of the remaining 3 years, where required, may be retained offsite. Subpart YY. [40 CFR 63.1109(c)]

132 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records containing information developed and used to assess control applicability under 40 CFR 63.1103 (e.g., combined total annual emissions of regulated organic HAP). Subpart YY. [40 CFR 63.1109(d)]

133 Submit Notification of Initial Startup: Due within 15 days after initial startup. Send DEQ written notification of the actual date of initial startup. Include the information specified in 40 CFR 63.1110(f). Subpart YY. [40 CFR 63.1110(b)]

134 Submit Initial Notification: Due within 1 year after the source becomes subject to 40 CFR 63 Subpart YY. Include the information specified in 40 CFR 63.1110(c)(2) through (c)(7), as applicable, and 63.1110(f). Subpart YY. [40 CFR 63.1110(c)]

135 Submit Notification of Compliance Status: Due 240 days after the compliance date, or 60 days after completion of the initial performance test or initial compliance assessment, whichever is earlier. Include the information specified in 40 CFR 63.1110(d)(1)(i), (d)(1)(ii), and (f). Subpart YY. [40 CFR 63.1110(d)]

136 Submit Periodic Reports: Due no later than 60 days after the end of each 6-month period. The first report shall cover the 6-month period after the Notification of Compliance Status report is due. Submit the first report no later than the last day of the month that includes the date 8 months (6 months and 60 days) after the Notification of Compliance Status report is due. Include all information specified in 40 CFR 63 Subpart YY and subparts referenced by 40 CFR 63 Subpart YY. Subpart YY. [40 CFR 63.1110(e)]

137 Develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the affected source during periods of startup, shutdown, and malfunction. Include a program of corrective action for malfunctioning process and air pollution control equipment used to comply with relevant standards under 40 CFR 63 Subpart YY. Address in the plan routine or otherwise predictable CPMS malfunctions. Develop this plan by the compliance date. Subpart YY. [40 CFR 63.1111(a)(1)]

138 Operate and maintain the affected source (including associated air pollution control equipment and CPMS) in accordance with the procedures specified in the startup, shutdown, and malfunction plan developed under 40 CFR 63.1111(a)(1) during periods of startup, shutdown, and malfunction. Subpart YY. [40 CFR 63.1111(a)(2)]

139 The owner or operator of an affected source may use its standard operating procedures (SOP) manual, an OSHA plan, or other plan as the startup, shutdown, and malfunction plan, provided the alternative plan(s) meet all the requirements of 40 CFR 63.1111 and are made available for inspection when requested by the Administrator. [40 CFR 63.1111(a)(3)]

140 Revise the startup, shutdown, and malfunction plan within 45 days after an event to include detailed procedures for operating and maintaining the affected source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment or CPMS, if the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the plan was developed. Subpart YY. [40 CFR 63.1111(a)(5)]

141 If actions during a startup, shutdown, and malfunction of an affected source, or of a control device or monitoring system required for compliance (including actions taken to correct a malfunction) are consistent with the procedures specified in the plan, state such information in a startup, shutdown, and malfunction report. Submit the startup, shutdown, and malfunction report by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate), unless the information is submitted with the Periodic Report. Include the information specified in 40 CFR 63.1111(b)(1)(i) through (b)(1)(iv). Subpart YY. [40 CFR 63.1111(b)(1)]

GRP010 Entire Facility

142 Any time an action taken during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) during which excess emissions occur is not consistent with the procedures specified in the affected source's plan, report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan, followed by a letter delivered or postmarked within 7 working days after the end of the event. Include in the immediate report the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Subpart YY. [40 CFR 63.1111(b)(2)]

143 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. 40 CFR 63.1 through 40 CFR 63.5 and 40 CFR 63.12 through 40 CFR 63.15 of Subpart A apply to owners and operators of affected sources subject to Subpart YY (40 CFR 63.1100(b)). [40 CFR 63.Subpart A]

144 Develop and implement a startup, shutdown, and malfunction plan meeting the requirements of 40 CFR 63.1111 to address minimization of emissions from startups, shutdowns, and malfunctions, including those resulting from kiln seals. [40 CFR 63.Subpart YY]

145 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

146 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

147 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

148 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

149 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

GRP011 Tanks

150 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

GRP012 89-47, 89-48, and 89-58 Fluorspar Silos

151 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

152 Shall maintain baghouse on the emission point at 99.5% or greater efficiency with a maximum concentration of particulate exiting the stack of 0.02 gr/scf. [LAC 33:III.501.C.6]

153 Vents shall be visually inspected for opacity on a daily basis. The filter elements (bags) shall be inspected every six months and changed as necessary. Records of opacity checks and maintenance inspections of the dust filters shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

154 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emissions are controlled by a baghouse which is considered MACT. [LAC 33:III.5109.A]

GRP013 Engines, Compressors, and Pumps

GRP013 Engines, Compressors, and Pumps

155 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

156 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

GRP014 Cooling Towers

157 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. [LAC 33:III.5109.A]

GRP015 Air Heaters

158 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

159 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

160 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

GRP017 Group of 12 Fugitives

161 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

162 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class I TAP only. No control is MACT. [LAC 33:III.5109.A]

GRP018 Tanks to Scrubbers

163 Hydrogen fluoride >= 99 % by weight by venting displacement emissions created by normal filling or emptying activities through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

GRP019 Loading Racks

164 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

GRP019 Loading Racks

165 Load hydrogen fluoride only into tank trucks and railcars that have a current certification in accordance with the U.S. DOT pressure test requirements of 49 CFR 180 for tank trucks and 49 CFR 173.31 for railcars, or have been demonstrated to be vapor-tight within the preceding 12 months. Subpart YY. [40 CFR 63.1103(c)]

166 Hydrogen fluoride >= 99 % by weight by venting emissions through a closed-vent system to a recovery system or wet scrubber. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

167 Equip with one of the control options listed in 40 CFR 63.1105(a)(1) through (a)(4). Subpart YY. [40 CFR 63.1105(a)]

168 Operate in such a manner that emissions are routed through the equipment specified in 40 CFR 63.1105(a). Subpart YY. [40 CFR 63.1105(b)]

169 Ensure that the control device is operating whenever HAP emissions are vented. Subpart YY. [40 CFR 63.1105(c)]

170 Load HAP-containing materials only into tank trucks and railcars that meet the requirement in 40 CFR 63.1105(d)(1) or (2). Subpart YY. [40 CFR 63.1105(d)]

171 Ensure that no pressure relief device in the loading equipment of each tank truck or railcar begins to open to the atmosphere during loading. Subpart YY. [40 CFR 63.1105(e)]

172 Load HAP-containing materials only to tank trucks or railcars equipped with a vapor collection system that is compatible with the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(f)]

173 Load HAP-containing material only to tank trucks or railcars whose collection systems are connected to the transfer rack's closed vent system or process piping. Subpart YY. [40 CFR 63.1105(g)]

174 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record that the verification of DOT tank certification or 40 CFR 60 Appendix A, Test Method 27 testing required in 40 CFR 63.84(c) has been performed. Subpart YY. [40 CFR 63.1105(i)]

GRP020 2-04 and 3-04 Engines

175 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

176 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

177 Submit an initial notification meeting the requirements of 40 CFR Subpart ZZZZ. [40 CFR 63.6645(d)]

GRP021 Scrubbers

178 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

179 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

180 Establish a minimum liquid flow rate (this may be done by analysis). Subpart YY. [40 CFR 63.1103(c)]

181 Flow rate monitored by flow rate monitoring device continuously. Monitor the liquid flow rate, as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

182 Flow rate recordkeeping by the regulation's specified method(s) at the regulation's specified frequency. Keep records as specified in 40 CFR 63.996 and 63.998(b), (c) and (d)(3). Subpart YY. [40 CFR 63.1103(c)]

GRP021 Scrubbers

183 Reduce the overall emissions of hydrogen halides and halogens by the control device performance level specified in a referencing subpart. Subpart SS. [40 CFR 63.994(a)(1)]

184 Operate at all times when emissions are vented to control device. Subpart SS. [40 CFR 63.994(a)(2)]

185 Flow monitored by flow indicator once every 15 minutes (at minimum). Install the flow meter at the scrubber influent for liquid flow. Determine gas stream flow using one of the procedures specified in 40 CFR 63.994(c)(1)(ii)(A) through (c)(1)(ii)(D). Subpart SS. [40 CFR 63.998(b)(1)]
Which Months: All Year Statistical Basis: None specified

186 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.998(a) through (d), as applicable. Subpart SS. [40 CFR 63.998]

187 Submit Periodic Report: Due as specified in the referencing subpart. Include the information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]

188 Submit request for approval to use alternatives to continuous operating parameter monitoring and recordkeeping provisions, as provided for in 40 CFR 63.996(d)(1), as specified in a referencing subpart. Include the information specified in 40 CFR 63.999(d)(1)(i) and (d)(1)(ii). Subpart SS. [40 CFR 63.999(d)(1)]

189 Submit request for approval to monitor a different parameter than those established in 40 CFR 63.996(c)(6) or to set unique monitoring parameters, as provided for in 40 CFR 63.996(d)(2), as specified as specified in a referencing subpart. Include the information specified in 40 CFR 63.999(d)(2)(i) through (d)(2)(iii). Subpart SS. [40 CFR 63.999(d)(2)]

GRP022 89-64, 2-96, and 6-05 Fugitives

190 Comprehensive Toxic Air Pollutant Emission Control Program. LAC 33:III.5109. STATE ONLY. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

191 Control hydrogen fluoride emissions by using leakless pumps and by implementing a sensory monitoring leak detection program. Identify equipment that is excluded from sensory monitoring because it operates less than 300 hours per year or is in vacuum service by list, location, or other method, and record the identity. Subpart YY. [40 CFR 63.1103(c)]

192 Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Perform sensory monitoring at least once every shift, but no later than within 15 days. Subpart YY. [40 CFR 63.1103(c)]
Which Months: All Year Statistical Basis: None specified

193 Begin repairing leaks no later than one hour after a leak is detected, and complete repairs as soon as practical. Subpart YY. [40 CFR 63.1103(c)]

194 Presence of a leak recordkeeping by electronic or hard copy upon each occurrence of a leak. Keep records of each leak detected and repaired, including equipment identification number, date and time the leak was detected and that repair was initiated, and the date of successful repair. Subpart YY. [40 CFR 63.1103(c)]

GRP023 Furnaces

195 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

196 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

197 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

GRP023 Furnaces

198 Limit CO emissions to 400 ppm by volume on a dry basis corrected to 3% oxygen (40 CFR 63.7500. Table 1). [40 CFR 63.7500]

199 Develop and implement a written startup, shutdown, and malfunction plan according to the provisions of 40 CFR 63.6(e)(3). [40 CFR 63.7505(e)]