BOBBY JINDAL
GOVERNOR

HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY

Certified Mail No. ENVIRONMENTAL SERVICES

Activity No.: PER20080008
Agency Interest No. 2644

Mr. David Gasper
Plant Manager
Pioneer Americas LLC
P.O. Box 23
St. Gabriel, LA 70776

RE: Part 70 Operating Permit, d/b/a Olin Chlor Alkali Products.
Pioneer Americas LLC, St. Gabriel, Iberville Parish, Louisiana

Dear Mr. Gasper:

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 _____, 2013, 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 _____, 2008.

Permit No.: 1280-00011-V0

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN: MDW
c: EPA Region VI

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
PIONEER AMERICAS LLC, SAINT GABRIEL FACILITY
d/b/a OLIN CHLOR-ALKALI PRODUCTS (OLIN)
PROPOSED INITIAL PART 70 AIR OPERATING PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on the initial Part 70 air operating permit for Pioneer Americas LLC , P.O. Box 23, St. Gabriel, LA 70776 for the Olin Chlor-Alkali Products (Olin), Saint Gabriel Facility. **The facility is located at 4205 Highway 75, St. Gabriel, Iberville Parish.**

Olin uses mercury cell technology to produce chlorine, sodium hydroxide, and hydrogen. Olin requested to replace the facility's mercury cell technology with membrane cell technology. The construction and operation of the Membrane Chlor-Alkali Unit will result in a positive environmental benefit. In order to continue to serve their customers, the Membrane Chlor-Alkai Unit must be constructed and commissioned before the Mercury Cell Chlor-Alkali Unit ceases operation. Olin requested a Part 70 air operating permit and currently operates under Permit No. 1280-00011-03 issued on August 10, 2007.

Membrane technology relies on an ion-exchange membrane to separate the sodium and chloride ions of the sodium chloride. Olin will construct and operate a 130,000 lb/hr steam generating boiler (Boiler D, EQT0020). Steam generated from the boiler will primarily be used for the caustic concentration units. The boiler will use natural gas or a mixture of process hydrogen supplemented with natural gas for fuel.

This permit was processed as an expedited permit in accordance with LAC 33:I.Chapter 18.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM_{10}	49.03	25.11	-23.92
SO_2	11.02	2.91	- 8.11
NO_X	42.71	47.58	+4.87
CO	3.47	42.80	+39.33
VOC	4.35	6.24	+ 1.89
Hg (and compounds)	0.612	0.60	- 0.01

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, November 17, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, statement of basis and the proposed Part 70 air operating permit are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov**.

Additional copies may be reviewed at the Iberville Parish Library, East Iberville Branch, 5715 Monticello Street, St. Gabriel, LA 70776.

Inquiries or requests for additional information regarding this permit action should be directed to Mei Wu, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3121.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 2644, Permit Number 1280-00011-V0, and Activity Number PER20080008.

Scheduled Publication Date: October 9, 2008

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

I. Background

Pioneer Americas LLC operates an existing Chlor-Alkali Plant in St. Gabriel, Iberville Parish. The facility was first permitted as Stauffer Chemical on April 16, 1971. In 1988, ownership changed to Pioneer Chlor Alkali Company. In March 2004, the company changed its name to Pioneer Americas LLC. Permit No. 1280-00011-02 was issued October 12, 1998 and the small source exemption was issued March 5, 2004. On August 31, 2007 Olin Corporation purchased Pioneer Companies, Inc. and Pioneer Americas LLC, now d/b/a Olin Chlor Alkali Products, became part of Olin Corporation. d/b/a Olin Chlor Alkali Products (Olin) currently operates under Permit No. 1280-00011-03 issued on August 10, 2007.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Olin on May 22, 2008 and additional information dated July 11 and July 29, 2008 was also received requesting a Part 70 operating permit.

III. Description

Olin uses mercury cell technology to produce chlorine, sodium hydroxide, and hydrogen. In this process, purified saturated brine solution is electrolyzed to produce chlorine and sodium. The sodium dissolves in a liquid mercury cathode, forming a sodium/mercury amalgam which is reacted with water to produce 50% sodium hydroxide (NaOH) and hydrogen.

Olin proposed to replace the facility's mercury cell technology with membrane cell technology. The construction and operation of the Membrane Chlor-Alkali Unit will result in a positive environmental benefit. In order to continue to serve their customers, the Membrane Chlor-Alkai Unit must be constructed and commissioned before the Mercury Cell Chlor-Alkali Unit ceases operation. An "Authorization to Construct and Approval to Operate" for the project was granted on May 25, 2007.

Membrane technology relies on an ion-exchange membrane to separate the sodium and chloride ions of the sodium chloride.

Brine Purification
Saturated brine will be purchased and received via pipeline into the plant and will enter the purification system for heating, precipitation, filtration, ion exchange, and final storage of the ultra pure brine.

Electrolysis

Caustic soda (NaOH) and chlorine will be produced by the electrolysis of an aqueous solution of ultra pure brine.

The cells will be supplied with ultra pure brine through the anode compartment, where chlorine is generated. A constant pressure difference between the cathode and anode compartment is essential for safe operation of the cells. If the cell pressure increases excessively, the chlorine gas is vented to the neutralization scrubber.

The electrolytic reaction and dilution of the circulating catholyte stream require additional water. Required water is supplied by the water transport phenomenon through the membrane and by addition of distilled water according to load. Hydrogen and hydroxide ions are generated from water at the cathodes. The two phase mixture of caustic and hydrogen is sent to a gas separator where the hydrogen is separated from the catholyte and flows to the hydrogen main header. The catholyte is then sent to the catholyte tank.

Chlorine gas is generated at the anode. The two phase mixture of chlorine and anolyte is discharged into a gas separator where the major part of the chlorine gas is separated from the anolyte and flows to the chlorine main header. The anolyte is then sent to the anolyte tank.

Chlorine leaving the cells is cooled, dried, compressed, and liquefied before shipment to customers by pipeline. The facility currently ships all produced chlorine by pipeline and unloads rail cars to complement maximum flows into the pipeline.

Brine Dechlorination

The anolyte flowing from the cells is saturated with chlorine gas. Hydrochloric acid is added to the anolyte to facilitate the release of dissolved chlorine. The anolyte will enter the existing dechlorination unit for chlorine desorption and bisulfite treatment. The dechlorinated brine is then returned via pipeline.

Hydrogen Treatment

Hydrogen from the cells is saturated with water and contains entrained caustic. The process hydrogen will enter a treatment system, where the gas is cooled and filtered. The hydrogen stack will be used for emergency venting. Hydrogen will either be sold or used in Boiler D (17-08, EQT0020) as fuel.

Boilers

Pioneer Americas, LLC will construct and operate a 130,000 lb/hr steam generating boiler (Boiler D, 17-08, EQT0020). Steam generated from the boiler will primarily be used for the

caustic concentration units. The boiler will use natural gas or a mixture of process hydrogen supplemented with natural gas for fuel. Boiler C (6-78, EQT0003) will normally operate in stand-by mode and only operate at full capacity if Boiler D is not operating. The revised calculations for Boiler C are based on 90 days/year of operating at full rates with the remainder of the year operating in stand-by mode.

This permit addresses the entire facility, including both the mercury cell and the membrane cell chlor-alkali unit. The following sources need to remain in the permit until they are permanently decommissioned:

- The outlet Endbox Vent (RLP0005),
- Hydrogen Processing Equipment Vent (RLP0006),
- Boiler A (EQT0002),
- Sodium Chloride Handling (EQT0004), and
- Diesel Storage Tank T-819 (EQT0005).

No later than 90 days after the mercury cell chlor-alkali unit is permanently decommissioned, Pioneer Americas, LLC shall submit permit modification to remove above sources from the permit.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM_{10}	49.03	25.11	-23.92
SO_2	11.02	2.91	- 8.11
NO_X	42.71	47.58	+4.87
CO	3.47	42.80	+39.33
VOC	4.35	6.24	+ 1.89
Hg (and compounds)	0.612	0.60	- 0.01

LAC 33:III. Chapter 51 Toxic Air Pollutants TAP's	Emissions in Tons per year
Methyl ethyl ketone	1.47
Styrene	0.52
Cl_2	0.10
HCl	0.02
H_2SO_4	0.01
Hg (and compounds)	0.60
Total TAPs	2.72

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs).

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>**, 2008; and in the <local paper>, <local town>, on **<date>**, 2008. 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

Emissions associated with the proposed permit modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

The following is the modeling result from last permit modification:

Dispersion Model(s) Used: ISCST3

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Ambient Air Quality Standard (NAAQS)
Mercury	8-hour	0.43 $\mu g/m^3$	1.19 $\mu g/m^3$

VIII. General Condition XVII Activities

		Emission Rates - tons						
Work Activity	Schedule	PM_{10}	SO_2	NO_X	CO	VOC	Cl_2	Hg
Chlorine Pump Replacement	5/year						1.57E-7	
Depleted Brine Pump Replacement	Semi-annually						5.40E-5	
Pressure Gauge (Chlorine Service) Removal	Weekly						3.65E-5	
Instrument (Chlorine Service) Removal	Semi-weekly						9.30E-10	
Pipe (Chlorine Service) Removal	12/year						6E-7	
Valve (Chlorine Service) Removal	Semi-weekly						4.05E-9	
REMERC Sump Cleaning	3/year							1.50E-8
Carbon Replacement in Carbon Tower	Biannual							7.8E-9
Relining and Sealing Caustic Tanks	Annually					1.05		
Transfer Hg (Cementation Pot to Cell House Storage)	75/year							2.08E-8
Cleaning and Repacking Iron-Packed Column Sump	Bi-monthly							2.53E-9

IX. Insignificant Activities

ID No.:	Description	Citation
-	Laboratory Hoods (2)	LAC 33:III.501.B.5.A.6
T-240	Filtered Brine Tank - 25,000 gallons	LAC 33:III.501.B.5.A.10
T-270	Polished Brine Tank - 30,000 gallons	LAC 33:III.501.B.5.A.10
T-321	Individual Catholyte Tank – 4,000 gallons	LAC 33:III.501.B.5.B.40
T-345	Chlorine Condensate Tank – 1,200 gallons	LAC 33:III.501.B.5.A.10
T-470	NaOH Caustic Surge Tank	LAC 33:III.501.B.5.B.40

AIR PERMIT BRIEFING SHEET
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LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

ID No.:	Description	Citation
T-340	Anolyte Tank – 9,000 gallons	LAC 33:III.501.B.5.A.10
T-320	Catholyte Tank – 13,400 gallons	LAC 33:III.501.B.5.B.40
-	Cooling Tower Treatment Chemicals Tanks – 500 gallons	LAC 33:III.501.B.5.B.8
-	Boiler Water Treatment Chemicals Tanks – 2,500 gallons	LAC 33:III.501.B.5.B.8
T-920	DI Water Storage Tank – 20,000 gallons	LAC 33:III.501.B.5.C.1
T-940	Chilled Water Tank – 8,200 gallons	LAC 33:III.501.B.5.C.1
T-948	Condensate Return Tank – 500 gallons	LAC 33:III.501.B.5.C.1
T-205	Precipitation Tank 1 – 35,000 gallons	LAC 33:III.501.B.5.A.10
T-207	Precipitation Tank 2 – 35,000 gallons	LAC 33:III.501.B.5.A.10
T-209	Precipitated Brine Pumping Tank – 3,200 gallons	LAC 33:III.501.B.5.A.10
T-295	Ultra Pure Brine Tank – 180,000 gallons	LAC 33:III.501.B.5.A.10
T-460	Process Condensate Tank – 10,000 gallons	LAC 33:III.501.B.5.C.1
T-905	Safety Shower Head Tank – 500 gallons	LAC 33:III.501.B.5.C.1
T-965	Steam Condensate Storage Tank – 9,400 gallons	LAC 33:III.501.B.5.C.1
T-951	Boiler Feedwater Deaerator – 7,800 gallons	LAC 33:III.501.B.5.C.1
T-624	Lube Oil Tank- 1,200 gallons	LAC 33:III.501.B.5.A.3
T-625	Lube Oil Head Tank - 100 gallons	LAC 33:III.501.B.5.A.2
T-974	Caustic Day Tank – 13,000 gallons	LAC 33:III.501.B.5.B.40
T-905B	Strong Sulfuric Acid Tank – 25,000 gallons	LAC 33:III.501.B.5.D
T-183	Emergency Generator Diesel Tank – 225 gallons	LAC 33:III.501.B.5.A.2
T-815	Firewater Diesel Tank – 225 gallons	LAC 33:III.501.B.5.A.2
T-836	Strong Acid Cooler Glycol Tank – 700 gallons	LAC 33:III.501.B.5.A.3
T-740A	Stormwater Lagoon Diesel Tank (West) – 550 gallons	LAC 33:III.501.B.5.A.3
T-740	Stormwater Lagoon Diesel Tank (East) – 550 gallons	LAC 33:III.501.B.5.A.3
T-808	North Well Diesel Fuel Tank – 280 gallons	LAC 33:III.501.B.5.A.3
T786	REMERC Hypo Storage Tank – 1000 gallons	LAC 33:III.501.B.5.A.10
T-822	3% Nash Tank – 420 gallons	LAC 33:III.501.B.5.A.10
T-821	45% Nash Tank – 7500 gallons	LAC 33:III.501.B.5.A.10
T-971	Sodium Bisulfate Tank – 1000 gallons	LAC 33:III.501.B.5.A.10

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

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

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2122	22	29*	51*	53*	56	59*
UNF0001	Facility Wide	1		1	1	1													1	1
EQT0001	3-78 - A Scrubber Vent Gas																			
EQT0003	6-78 - Boiler C Flue Gas				1	1	2								2					
EQT0006	12-95 - B Scrubber Vent Gas																			
EQT0008	14-95 - Process Cooling Tower																			
EQT0009	15-96 - Process Cooling Tower B																			
EQT0010	16-96 - Process Cooling Tower C																			
EQT0012	E-183 - Emergency Generator Diesel Engine				1	1	2													
EQT0013	E-740B - Stormwater Lagoon Pump Engine				1	1	2													
EQT0014	E-805C - Well Water Diesel Pump Engine				1	1	2													
EQT0015	E-814 - Firewater Diesel Pump Engine				1	1	2													
EQT0017	T-810 - Gasoline Tank at Garage							1												
EQT0018	T-819B - Diesel Storage Tank							2												
EQT0020	17-08 - Boiler D Flue Gas															1				
EQT0021	18-08 - Process Cooling Tower D																			
EQT0022	19-08 - Emergency Generator Diesel Engine #2				1	1	2													
EQT0023	20-08 - Sulfuric Acid Loading																			
FUG0001	FRP FAB - Maintenance Activity - FRP Fabrication and Repair																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

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

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2122	22	29*	51*	53*	56	59*
FUG0002	BL-610 - Hydrogen Compressor System																			
FUG0003	7-78 - Mercury Cell House Fugitives																			
RLP0008	13-95 - REMERC Neutralizer Vent Gas																			
RLP0009	H2 PURIF - Hydrogen Purification System																			

* 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.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

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

ID No.:	Description	40 CFR 60 NSPS									40 CFR 61			40 CFR 63 NESHAP					40 CFR	
		A	K	Ka	Kb	Db	Dc	GG	KKK	IIII	A	J	V	A	HH	SS	VV	HHH	64	68
UNF0001	Facility Wide	1																		1
EQT0001	3-78 - A Scrubber Vent Gas																			
EQT0003	6-78 - Boiler C Flue Gas						3													
EQT0006	12-95 - B Scrubber Vent Gas																			
EQT0008	14-95 - Process Cooling Tower																			
EQT0009	15-96 - Process Cooling Tower B																			
EQT0010	16-96 - Process Cooling Tower C																			
EQT0012	E-183 - Emergency Generator Diesel Engine																			
EQT0013	E-740B - Stormwater Lagoon Pump Engine																			
EQT0014	E-805C - Well Water Diesel Pump Engine																			
EQT0015	E-814 - Firewater Diesel Pump Engine																			
EQT0017	T-810 - Gasoline Tank at Garage																			
EQT0018	T-819B - Diesel Storage Tank																			
EQT0020	17-08 - Boiler D Flue Gas					1														
EQT0021	18-08 - Process Cooling Tower D																			
EQT0022	19-08 - Emergency Generator Diesel Engine #2																			
EQT0023	20-08 - Sulfuric Acid Loading																			
FUG0001	FRP FAB - Maintenance Activity - FRP Fabrication and Repair																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

d/b/a Olin Chlor Alkali Products
Agency Interest No.: 2644
Pioneer Americas LLC
St. Gabriel, Iberville Parish, Louisiana

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

ID No.:	Description	40 CFR 60 NSPS									40 CFR 61			40 CFR 63 NESHAP					40 CFR	
		A	K	Ka	Kb	Db	Dc	GG	KKK	IIII	A	J	V	A	HH	SS	VV	HHH	64	68
FUG0002	BL-610 - Hydrogen Compressor System																			
FUG0003	7-78 - Mercury Cell House Fugitives																			
RLP0008	13-95 - REMERC Neutralizer Vent Gas																			
RLP0009	H2 PURIF - Hydrogen Purification System																			

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
EQT0003 Boiler C	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.
	Control of Nitrogen Oxides Emissions [LAC 33:III.2201.C.1]	EXEMPT. Boiler maximum rated capacity < 40 MM BTU/hr.
	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc]	DOES NOT APPLY. There have been no construction, modification, or reconstruction commenced after June 9, 1989. As per 40 CFR 60.14(e) (4), use of an alternative fuel shall not be considered a modification if the existing facility was designed to accommodate its use. Boiler C was equipped to burn natural gas prior to June 9, 1989.
EQT0012, EQT0013, EQT0014, & EQT0015 Engines EQT0020 – Boiler D	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.

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, Enforcement 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, Enforcement 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, Enforcement 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 May 22, 2008, along with supplemental information dated July 11 and July 29, 2008.

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.

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

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, Enforcement 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, Enforcement 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 in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.

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 the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or

assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the 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. For Part 70 sources, 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: 2644 Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

Also Known As:

ID	Name	User Group	Start Date
1280-00011	Pioneer Americas LLC - St Gabriel Facility	CDS Number	01-01-2000
51-0302028	Federal Tax ID	Federal Tax ID	11-20-1999
6330096-001	Tax Exempt No	Federal Tax ID	11-20-1999
LAD062666540	Olin Chlor Alkali	Hazardous Waste Notification	02-20-2008
PC	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
00862	Pioneer Chlor Alkali	Inactive & Abandoned Sites	11-23-1999
LAD062666540	Stauffer Chemical Co St Gabriel	Inactive & Abandoned Sites	11-23-1999
LA0005231	LPDES #	LPDES Permit #	05-22-2003
LAR10E658	LPDES #	LPDES Permit #	01-02-2008
WP0757	LWDPS #	LWDPS Permit #	06-25-2003
	Pioneer Americas Inc - Industrial Chemical Div St Gabriel Installation	Multimedia	01-24-2002
	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
G-047-2028	Site ID #	Solid Waste Facility No.	11-21-1999
47889	Stauffer Chemical Co	TEMPO Merge	11-29-2006
84350	Pioneer Americas Inc	TEMPO Merge	10-25-2000
70776STFFRRIVER	TRI #	Toxic Release Inventory	07-14-2004

Physical Location: 4205 Hwy 75
St. Gabriel, LA 70776

Main FAX: 5046421882
Main Phone: 2256421800

Mailing Address: PO Box 23
St. Gabriel, LA 707760023

Location of Front Gate: 30° 14' 26" latitude, 91° 6' 24" longitude, Coordinate Method: GPS Code (Psuedo Range) Differential, Coordinate Datum: NAD83

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Benny Bennett	PO Box 23 St. Gabriel, LA 707760023	2256421800 (WP)	Water Billing Party for
Benny Bennett	PO Box 23 St. Gabriel, LA 707760023	2256421882 (WF)	Water Billing Party for
Dana Oliver	PO Box 23 St Gabriel, LA 707760023	2256421863 (WP)	Accident Prevention Contact for
Dana Oliver	PO Box 23 St Gabriel, LA 707760023	2256421863 (WP)	Accident Prevention Billing Party for
Regina Wilson	PO Box 23 St. Gabriel, LA 707760023	REGINA.WILSON@	Water Permit Contact For
Regina Wilson	PO Box 23 St. Gabriel, LA 707760023	2256421863 (WP)	Water Permit Contact For
Regina Wilson	PO Box 23 St. Gabriel, LA 707760023	REGINA.WILSON@	Hazardous Waste Permit Contact For
Regina Wilson	PO Box 23 St. Gabriel, LA 707760023	2256421863 (WP)	Hazardous Waste Permit Contact For
Regina Wilson	PO Box 23 St. Gabriel, LA 707760023	REGINA.WILSON@	Emission Inventory Contact for
Regina Wilson	PO Box 23 St. Gabriel, LA 707760023	2256421863 (WP)	Emission Inventory Contact for

General Information

AI ID: 2644 Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Pioneer Americas LLC	PO Box 23 St. Gabriel, LA 707760023		Operates
	Pioneer Americas LLC	PO Box 23 St. Gabriel, LA 707760023		Air Billing Party for
	Pioneer Americas LLC	PO Box 23 St. Gabriel, LA 707760023		Owns
	Pioneer Americas LLC	PO Box 23 St. Gabriel, LA 707760023		Haz. Waste Billing Party for
	Pioneer Americas LLC	PO Box 23 St. Gabriel, LA 707760023		Emission Inventory Billing Party

NAIC Codes: 325181, Alkalies and Chlorine Manufacturing

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.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2644 - Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

	CO			NOx			PM10			SO2			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
Facility Wide															
EQT 0003 6-78	1.03	3.21	4.53	1.23	3.82	5.39	0.09	0.29	0.41	0.01	0.02	0.03	0.07	0.21	0.30
EQT 0008 14-95							2.87	4.18	12.57						
EQT 0009 15-96							0.15	0.51	0.67						
EQT 0010 16-96							0.46	1.54	2.01						
EQT 0012 E-183	6.60	7.92	1.65	28.80	34.56	7.20	0.84	1.01	0.21	4.85	5.82	1.21	0.85	1.02	0.21
EQT 0013 E-740B	1.67	2.00	0.42	7.75	9.30	1.94	0.55	0.66	0.14	0.51	0.62	0.13	0.63	0.75	0.16
EQT 0014 E-805C	1.00	1.20	0.25	4.65	5.58	1.16	0.33	0.40	0.08	0.31	0.37	0.08	0.38	0.45	0.09
EQT 0015 E-814	2.00	2.40	0.50	9.30	11.16	2.33	0.66	0.79	0.17	0.62	0.74	0.15	0.75	0.91	0.19
EQT 0017 T-810													0.10	0.12	0.45
EQT 0018 T-819B													<0.01	<0.01	0.02
EQT 0020 17-08	8.06	9.67	35.30	5.80	6.96	25.42	1.61	1.93	7.06	<0.01	<0.01	<0.01	0.64	0.77	2.82
EQT 0021 18-08							0.41	0.57	1.78						
EQT 0022 19-08	0.60	0.72	0.15	16.57	19.88	4.14	0.06	0.07	0.01	5.26	6.31	1.31	0.03	0.03	0.01
FUG 0001 FRP FAB													1.91	72.38	1.99

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2644 - Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 3-78	Chlorine	0.01	0.02	0.05
	Hydrochloric acid	< 0.001	< 0.001	0.01
	Sulfuric acid	< 0.001	< 0.001	< 0.001
EQT 0006 12-95	Chlorine	0.01	0.02	0.05
	Hydrochloric acid	< 0.001	< 0.001	0.01
	Sulfuric acid	< 0.001	< 0.001	< 0.001
EQT 0023 20-08	Sulfuric acid	0.002	0.002	0.01
FUG 0001 FRP FAB	Methyl ethyl ketone	1.41	50.00	1.47
	Styrene	0.50	22.38	0.52
FUG 0002 BL-610	Mercury (and compounds)	< 0.001	< 0.001	< 0.001
FUG 0003 7-78	Mercury (and compounds)	0.14	0.21	0.60
RLP 0008 13-95	Chlorine	0.001	0.001	0.004
	Mercury (and compounds)	< 0.001	< 0.001	< 0.001
RLP 0009 H2 PURIF	Mercury (and compounds)	< 0.001	< 0.001	< 0.001
UNF 0001 UNF0001	Chlorine			0.10
	Hydrochloric acid			0.02
	Mercury (and compounds)			0.60
	Methyl ethyl ketone			1.47
	Styrene			0.52
	Sulfuric acid			0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

INVENTORIES

AI ID: 2644 - Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Facility Wide						
EQT0001	3-78 - A Scrubber Vent Gas		4950 ft^3/min	4125 ft^3/min		8760 hr/yr (All Year)
EQT0003	6-78 - Boiler C Flue Gas			39 MM BTU/hr		8760 hr/yr (All Year)
EQT0006	12-95 - B Scrubber Vent Gas		4950 ft^3/min	4125 ft^3/min		8760 hr/yr (All Year)
EQT0008	14-95 - Process Cooling Tower		13000 gallons/min	12500 gallons/min		8760 hr/yr (All Year)
EQT0009	15-96 - Process Cooling Tower B		2400 gallons/min	1000 gallons/min		8760 hr/yr (All Year)
EQT0010	16-96 - Process Cooling Tower C		7200 gallons/min	3000 gallons/min		8760 hr/yr (All Year)
EQT0012	E-183 - Emergency Generator Diesel Engine		1200 horsepower	1200 horsepower		500 hr/yr (All Year)
EQT0013	E-740B - Stormwater Lagoon Pump Engine		250 horsepower	250 horsepower		500 hr/yr (All Year)
EQT0014	E-805C - Well Water Diesel Pump Engine		150 horsepower	150 horsepower		500 hr/yr (All Year)
EQT0015	E-814 - Firewater Diesel Pump Engine		300 horsepower	300 horsepower		500 hr/yr (All Year)
EQT0017	T-810 - Gasoline Tank at Garage	550 gallons		2200 gallons/yr		8760 hr/yr (All Year)
EQT0018	T-819B - Diesel Storage Tank	20000 gallons		2.6 MM gallons/yr		8760 hr/yr (All Year)
EQT0020	17-08 - Boiler D Flue Gas		161.2 MM BTU/hr	161.2 MM BTU/hr		8760 hr/yr (All Year)
EQT0021	18-08 - Process Cooling Tower D		9000 gallons/min	9000 gallons/min		8760 hr/yr (All Year)
EQT0022	19-08 - Emergency Generator Diesel Engine #2		1300 horsepower	1300 horsepower		500 hr/yr (All Year)
EQT0023	20-08 - Sulfuric Acid Loading		20 tons/day	20 tons/day		8760 hr/yr (All Year)
FUG0001	FRP FAB - Maintenance Activity - FRP Fabrication and Repair		4950 ft^3/min	4125 ft^3/min	resin usage	2080 hr/yr (All Year)
FUG0002	BL-610 - Hydrogen Compressor System		36 ft^3/min	30 ft^3/min		8760 hr/yr (All Year)
FUG0003	7-78 - Mercury Cell House Fugitives		1.16 ft^3/min	1.16 ft^3/min		8760 hr/yr (All Year)
RLP0008	13-95 - REMERC Neutralizer Vent Gas		425 ft^3/min	280 ft^3/min		8760 hr/yr (All Year)
RLP0009	H2 PURIF - Hydrogen Purification System		930 (other units)	930 (other units)	based on events/yr	8760 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Facility Wide							
EQT0001	3-78 - A Scrubber Vent Gas	25	3300	1.67		53	140
EQT0003	6-78 - Boiler C Flue Gas	57	11840	2.1		36	540
EQT0006	12-95 - B Scrubber Vent Gas	25	3300	1.67		53	140
EQT0008	14-95 - Process Cooling Tower						90
EQT0009	15-96 - Process Cooling Tower B						90
EQT0010	16-96 - Process Cooling Tower C						90
EQT0012	E-183 - Emergency Generator Diesel Engine			1		13	875
EQT0013	E-740B - Stormwater Lagoon Pump Engine			.5		10.5	
EQT0014	E-805C - Well Water Diesel Pump Engine			.3		7	875
EQT0015	E-814 - Firewater Diesel Pump Engine			.33		8.25	875
EQT0017	T-810 - Gasoline Tank at Garage						
EQT0018	T-819B - Diesel Storage Tank					24	

INVENTORIES

AI ID: 2644 - Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Facility Wide							
EQT0020	17-08 - Boiler D Flue Gas	48.76	46504	4.5		75	326
EQT0022	19-08 - Emergency Generator Diesel Engine #2	372.4	7800	.67			933
FUG0002	BL-610 - Hydrogen Compressor System		30	.17		30	130
FUG0003	7-78 - Mercury Cell House Fugitives					148	
RLP0008	13-95 - REMERC Neutralizer Vent Gas	6	283	1		36	92
RLP0009	H2 PURIF - Hydrogen Purification System			.13		30	

Relationships:

Subject Item Groups:

ID	Group Type	Group Description
CRG0001	Common Requirements Group	CRG0001 - Engines
UNF0001	Unit or Facility Wide	UNF0001 - Facility Wide

Group Membership:

ID	Description	Member of Groups
EQT0012	E-183 - Emergency Generator Diesel Engine	CRG0000000001
EQT0013	E-740B - Stormwater Lagoon Pump Engine	CRG0000000001
EQT0014	E-805C - Well Water Diesel Pump Engine	CRG0000000001
EQT0015	E-814 - Firewater Diesel Pump Engine	CRG0000000001
EQT0022	19-08 - Emergency Generator Diesel Engine #2	CRG0000000001

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0420	Caustic/Chlorine (Rated Capacity)	492.75	MM Lb/Yr

SIC Codes:

2812	Alkalies and chlorine	AI2644

SPECIFIC REQUIREMENTS

AI ID: 2644 - Pioneer Americas LLC - St Gabriel Facility
Activity Number: PER20080008
Permit Number: 1280-00011-V0
Air - Title V Regular Permit Initial

EQT0001 3-78 - A Scrubber Vent Gas

1	[LAC 33:III.501.C.6]	Flow rate >= 500 gallons/min average for daily operations. Which Months: All Year Statistical Basis: None specified
2	[LAC 33:III.501.C.6]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: None specified
3	[LAC 33:III.501.C.6]	Flow rate recordkeeping by electronic or hard copy once every four hours.
4	[LAC 33:III.501.C.6]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
5	[LAC 33:III.501.C.6]	pH >= 10.5 s.u. Which Months: All Year Statistical Basis: None specified
6	[LAC 33:III.501.C.6]	pH monitored by pH instrument once every four hours. Which Months: All Year Statistical Basis: None specified
7	[LAC 33:III.501.C.6]	pH recordkeeping by electronic or hard copy once every four hours.

EQT0003 6-78 - Boiler C Flue Gas (39 MM Btu/hr)

8	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, 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. Which Months: All Year Statistical Basis: None specified
9	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
10	[LAC 33:III.501.C.6]	During the ozone season, fuel oil Feed rate (surrogate for heat input) monitored by technically sound method continuously. Which Months: May-Sep Statistical Basis: None specified
11	[LAC 33:III.501.C.6]	During the ozone season, fuel oil Feed rate recordkeeping by electronic or hard copy continuously. Keep records of the fuel oil feed rate hourly, as well as the hourly feed rate of fuel oil during the entire ozone season. Make records available for inspection by DEQ personnel.
12	[LAC 33:III.501.C.6]	Fuel Oil Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total hours the boiler burns fuel oil each month, as well as the hours the boiler burns fuel oil for the last twelve months. Make records available for inspection by DEQ personnel.
13	[LAC 33:III.501.C.6]	Fuel oil Operating time <= 500 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if fuel oil operating time exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: None specified
14	[LAC 33:III.501.C.6]	Fuel oil Operating time monitored by technically sound method continuously. Which Months: All Year Statistical Basis: None specified
15	[LAC 33:III.501.C.6]	Submit report: Due annually, by the 31st of March. Report the hours of fuel oil usage and the hourly feed rate of fuel oil (during the ozone season) for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

EQT0003 6-78 - Boiler C Flue Gas (39 MM Btu/hr)

16	[LAC 33:III.501.C.6]	When burning fuel oil during the ozone season (May 1 - September 30), heat input < 40 MM BTU/hr. Ensure compliance with this requirement by limiting the feed rate of fuel oil to less than 282 gal/hr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if fuel oil feed rate exceeds the maximum listed in this specific condition. Which Months: May-Sep Statistical Basis: Maximum

EQT0006 12-95 - B Scrubber Vent Gas

17	[LAC 33:III.501.C.6]	Flow rate >= 500 gallons/min. Which Months: All Year Statistical Basis: None specified
18	[LAC 33:III.501.C.6]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: None specified
19	[LAC 33:III.501.C.6]	Flow rate recordkeeping by electronic or hard copy once every four hours.
20	[LAC 33:III.501.C.6]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
21	[LAC 33:III.501.C.6]	pH >= 10.5 s.u. Which Months: All Year Statistical Basis: None specified
22	[LAC 33:III.501.C.6]	pH monitored by pH instrument once every four hours. Which Months: All Year Statistical Basis: None specified
23	[LAC 33:III.501.C.6]	pH recordkeeping by electronic or hard copy once every four hours.

EQT0017 T-810 - Gasoline Tank at Garage

24	[LAC 33:III.2103.A]	Equip with a submerged fill pipe.
25	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
26	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT0020 17-08 Boiler D Flue Gas

27	[40 CFR 60.44b(a)(h), and (i)	NOx emission factor limited to 0.20 lb/MM BTU at all times, including startup, shutdown, or malfunction, 30 day rolling average. [40 CFR 60.44b(a)(h), and (i)]
28	[40 CFR 60.46b(e)(1)]	NOx from the steam generating unit are monitored for 30 successive steam generating unit operating days and 30-day average emission rate is used to determine compliance with the NOx standards under 40 CFR 60.44b. [40 CFR 60.46b(e)(1)]
29	[40 CFR 60.46b(e)(4)]	Following the date the initial performance test is completed, the owner or operator of a facility that has a heat capacity < 250 MM BTU/hr and that combusts natural gas shall upon request demonstrate compliance with the NOx standards under 40 CFR 60.44b through the use of 30-day performance test. [40 CFR 60.46b(e)(4)]
30	[40 CFR 60.46b(e)]	Conduct an initial performance test as required under 40 CFR 60.8. [40 CFR 60.46b(e)]

EQT0020 17-08 Boiler D Flue Gas

31	[40 CFR 60.48(g)(2)]	For boilers < 250 MM BTU/hr that has an annual capacity factor for natural gas greater than 10%, monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). [40 CFR 60.48(g)(2)]
32	[40 CFR 60.49b(a)]	Submit notification of actual date of initial startup within 15 days. [40 CFR 60.49b(a)]
33	[40 CFR 60.49b(c)]	If the plan is approved, maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. [40 CFR 60.49b(c)]
34	[40 CFR 60.49b(c)]	Submit to the Administrator for approval a plan that identifies the operating conditions to be monitored under 40 CFR 60.48b(g)(2). The plan shall be submitted for approval within 360 days of initial startup. [40 CFR 60.49b(c)]
35	[40 CFR 60.49b(d)]	Record amounts of each fuel combusted during each day and calculate the annual capacity factor for natural gas during the reporting period, rolling 12-month average. [40 CFR 60.49b(d)]
36	[40 CFR 60.49b(g)]	Maintain records for each steam generating unit operating day. [40 CFR 60.49b(g)]
37	[40 CFR 60.49b(h)]	Submit excess emission reports when excess emissions occur during the reporting period. [40 CFR 60.49b(h)]
38	[40 CFR 60.49b(o)]	Maintain records for a period of two years. [40 CFR 60.49b(o)]
39	[40 CFR 60.7(a)(1)]	Submit notification of construction no later than 30 days after construction has commenced. [40 CFR 60.7(a)(1)]
40	[40 CFR 60.7(b)]	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility. [40 CFR 60.7(b)]
41	[40 CFR 60.8(a)]	Conduct a performance test within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility. [40 CFR 60.8(a)]
42	[40 CFR 60.8(d)]	Provide at least 30 days notice of any performance test to afford the Administrator opportunity to have an observer present. [40 CFR 60.8(d)]
43	[40 CFR 60.8(f)]	The performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and conditions specified in the applicable standard. For the purpose of determining compliance with the standard, the arithmetic means of results of the three runs shall apply. [40 CFR 60.8(f)]
44	[LAC 33:III.1101.B]	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. Which Months: All Year Statistical Basis: None specified
45	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
46	[LAC 33:III.2201.D]	NOx emission factor limited to 0.10 lb/MM BTU for boilers rated >= 80 MM BTU/hr applies during the ozone season, 30-day rolling average.
47	[LAC 33:III.2201.G.5]	Compliance with emission specifications shall be demonstrated while operating at maximum rated capacity, or as near thereto as practicable. Three minimum one-hour tests shall be performed.
48	[LAC 33:III.2201.H.1.a.i]	Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. Which Months: May-Sep Statistical Basis: None specified
49	[LAC 33:III.2201.H.1.a.ii]	Install, calibrate, maintain, and operate an oxygen monitor to measure oxygen concentration.
50	[LAC 33:III.2201.I.1]	Notify the department at least 30 days prior to any compliance testing conducted.
51	[LAC 33:III.2201.I.1]	Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

EQT0020 17-08 Boiler D Flue Gas

52	[LAC 33:III.2201.I.2]	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.
53	[LAC 33:III.2201.I.3]	Maintain record of all continuous monitoring, performance test results, hours of operation, and fuel usage rates for a period of at least five years. Records shall be made available upon request by authorized representatives of the department.
54	[LAC 33:III.2201.I]	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.

FUG0001 FRP FAB - Maint Activity-FRP Fabrication and Repair

55	[LAC 33:III.501.C.6]	Preparation and Cleanup: Usage of Methyl ethyl ketone and Styrene monitored by technically sound method continuously. Which Months: All Year Statistical Basis: None specified
56	[LAC 33:III.501.C.6]	Preparation and cleanup: Usage of Methyl ethyl ketone and Styrene recordkeeping by electronic or hard copy monthly. Keep records of the total MEK and Styrene usage each month, as well as the total MEK and Styrene usage for the last twelve months. Make records available for inspection by DEQ personnel.
57	[LAC 33:III.501.C.6]	Resin Usage <= 4000 lb/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if resin usage exceeds the maximum listed in this specific condition for any twelve consecutive month period.
58	[LAC 33:III.501.C.6]	Resin usage monitored by technically sound method continuously.
59	[LAC 33:III.501.C.6]	Resin usage recordkeeping by electronic or hard copy monthly. Keep records of the total resin usage each month, as well as the total resin usage for the last twelve months. Make records available for inspection by DEQ personnel.

RLP0009 H2 PURIF - Hydrogen Purification System

60	[LAC 33:III.501.C.6]	Depressurization events recordkeeping by electronic or hard copy monthly. Keep records of the total number of depressurization events each month, as well as the total number of depressurization events for the last twelve months. Make records available for inspection by DEQ personnel.
61	[LAC 33:III.501.C.6]	Number of depressurization events <= 930 per year. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the number of events exceeds the maximum listed in this specific condition for any twelve consecutive month period.
62	[LAC 33:III.501.C.6]	Number of depressurization events monitored by technically sound method continuously.
63	[LAC 33:III.501.C.6]	Submit report: Due annually, by the 31st of March. Report the number of depressurization events for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

CRG0001 Engines

Group Members: EQT0012 EQT0013 EQT0014 EQT0015 EQT0022

CRG0001 Engines

64	[LAC 33:III.1101.B]	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. Which Months: All Year Statistical Basis: None specified
65	[LAC 33:III.1311.C]	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. Which Months: All Year Statistical Basis: Six-minute average

UNF0001 Facility Wide

66	[40 CFR 60.]	All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
67	[40 CFR 63.8180]	Pioneer shall continuously comply with all applicable requirements of 40 CFR 63 Subpart IIIII until the construction and operation of membrane chlor-alkali unit is completed.
68	[40 CFR 63.]	Comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 10 of 40 CFR 63 Subpart IIIII until the construction and operation of the membrane chlor-alkali unit is completed.
69	[40 CFR 70.5(a)(1)(iii)]	Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
70	[40 CFR 70.6(a)(3)(iii)(A)]	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)]
71	[40 CFR 70.6(a)(3)(iii)(B)]	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)]
72	[40 CFR 70.6(c)(5)(iv)]	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)]
73	[LAC 33:III.1103]	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.
74	[LAC 33:III.1303.B]	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.
75	[LAC 33:III.2113.A]	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.

UNF0001 Facility Wide

76	[LAC 33:III.219]	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.
77	[LAC 33:III.2901.D]	Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
78	[LAC 33:III.2901.F]	If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
79	[LAC 33:III.501.C.1]	Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services as required in accordance with the procedures in LAC 33:III.Chapter 5.
80	[LAC 33:III.501.C.6]	Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
81	[LAC 33:III.501.C.6]	Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
82	[LAC 33:III.501.C.6]	Pioneer Americas, LLC shall submit permit modification no later than 90 days after mercury cell chlor-alakli unit is permanently decommissioned.
83	[LAC 33:III.507.E.4]	Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
84	[LAC 33:III.511]	Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III.Chapter 5.
85	[LAC 33:III.517.A.1]	Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority.
86	[LAC 33:III.517.A.2]	Submit permit application: Due by the date established for submittal in accordance with LAC 33:III.507.C. The permit application is for an initial permit to be issued in accordance with LAC 33:III.507. Provide a copy of each permit application pertaining to a major Part 70 source to EPA at the time of application submittal to the permitting authority.
87	[LAC 33:III.517.G]	Submit change of ownership notification in accordance with LAC 33:I.Chapter 19.
88	[LAC 33:III.5609.A.1.b]	Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.

UNF0001 Facility Wide

89	[LAC 33:III.5609.A.2.b]	Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
90	[LAC 33:III.5609.A.3.b]	Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
91	[LAC 33:III.5609.A]	Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
92	[LAC 33:III.5901.A]	Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
93	[LAC 33:III.5907]	Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
94	[LAC 33:III.5911.C]	Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.
95	[LAC 33:III.919.D]	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.