DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail No.

Activity No.: PER20050001
Agency Interest No. 2049

Mr. Mike Cohen
General Manager
BASF Corporation
Post Office Box 457
Geismar, Louisiana 70734

RE: Part 70 Operating Permit, Glyoxal Plant
BASF Corporation, Geismar, Ascension Parish, Louisiana

Dear Mr. Cohen:

This is to inform you that the permit renewal 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.

Permit No.: 2094-V1

Sincerely,

Chuck Carr Brown Ph.D.
Assistant Secretary

CCB:SJG
c: EPA Region VI

ENVIRONMENTAL **SERVICES**
: PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
BASF CORPORATION/GLYOXAL PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL

The LDEQ, Office of Environmental Services, is accepting written comments on the Part 70 Air Operating Permit Renewal for BASF Corporation, P. O. Box 457, Geismar, LA 70734-0457 for the Glyoxal Plant. **The facility is located at 8404 River Road, Geismar, Ascension Parish.**

The BASF, Glyoxal Plant produces glyoxal via oxidation of ethylene glycol at low pressure and elevated temperature in the presence of a copper catalyst.

BASF requested to renew the Part 70 Air Operating Permit for the Glyoxal Plant. The update reflects adjustments to various operating conditions that have evolved since the previous permit action.

Estimated emissions from the Glyoxal Plant in tons per year are as follows:

Annual Emission Rates (tons)			
Pollutant	**Before**	**After**	**Change**
PM_{10}	0.07	1.56	+1.49
SO_2	0.006	0.01	+0.004
NO_x	0.93	1.85	+0.92
CO	1.83	1.56	-0.27
VOC	4.06	7.64	+3.58

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., Thursday, May 25, 2006.** 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, proposed permit and statement of basis 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). Additional copies may be reviewed at the Ascension Parish Library - Gonzales Branch, 708 South Irma Boulevard, Gonzales LA 70737 and 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 Ms. 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 maillistrequest@ldeq.org 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.state.la.us/news/PubNotice/ 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.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 2049, Permit Number 2094-V1, and Activity Number PER20050001.

Publication Date: Friday, April 21, 2006

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

Glyoxal Plant
Agency Interest No.: 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana

I. Background

BASF Corporation operates a chemical manufacturing complex, Geismar Site, at 8404 River Road, Geismar, Louisiana, on the east bank of the Mississippi River between I-10 and Hwy 75. Geismar Site is divided into a number of areas for permitting under Part 70: Acetylene Plant; Amines Complex; Aniline 1 Plant; Aniline 2 Plant; Glyoxal Plant; Chemical Intermediates-North/Acetylenics Complex which includes 1,4-butanediol (1,4-BD), gamma-butyrolactone (GBL), n-methyl pyrrolidone (NMP), tetrahydrofuran (THF), and polytetrahydrofuran (Poly THF) plants; EO/EG (ethylene oxide/ethylene glycol) Plant; MDI (methylenebis phenylisocyanate) 1 Plant; MDI 2 Plant; NVP/PVP (vinylpyrrolidone/polyvinylpyrrolidone) Plant; Polyol Plant; TDI (toluene diisocyanate) Plant; and the Utilities Plant.

Geismar Site consolidated most existing emission points on May 26, 1990, under Permit No. 0180-00013-01. Glyoxal Plant received Permit No. 2094-V0, dated August 2, 2000, under which it currently operates.

This Part 70 Operating Permit is for the Glyoxal Plant only.

II. Origin

A permit application and Emission Inventory Questionnaire dated February 2, 2005, requested a Part 70 Operating Permit Renewal for the Glyoxal Plant. Additional information dated, April 22, 2005, and February 27, 2006 was also received.

III. Description

The Geismar Facility manufactures acetylene, amine compounds, aniline, 1,4-butanediol, gamma-buyrolactone, ethylene glycol, ethylene oxide, gasoline additives, glyoxal, methylenediphenyl diisocyanate, N-methyl-2-pyrrolidone, polyols, polytetrahydrofuran, polyvinylpyrrolidone, surfactants, tetrahydrofuran, toulenediisocyanate, and N-vinyl-2-pyrrolidone.

The Glyoxal Plant produces glyoxal via oxidation of ethylene glycol at low pressure and elevated temperature in the presence of a copper catalyst. Vapors from the reactor are absorbed into water to produce a crude 40% aqueous solution. Aldehydes are removed by steam stripping. Amine extraction absorbs residual organic acids to give the final product. Wastewater is controlled by the WWTP where the emissions are accounted for under the Utilities Title V operating permit 2265-V3.

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

Glyoxal Plant
Agency Interest No.: 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana

Modification

BASF proposes operating permit renewal updates to the Glyoxal Plant Part 70 Operating Permit, No. 2094-V0. The updates reflect proposed adjustments to various operating conditions that have evolved since the previous permit action. A brief summary of the proposed changes is as follows:

- Minor updates have been made to GC XVII Activities, including startup/shutdown VOC and carbon monoxide emission rates.
- Fugitive emission calculations, Emission Point 4-88, have been reconciled.
- Storage tank, railcar and truck loading emissions have been updated as a result of minor changes in throughput: Emission Points 5-88, 7-88, 8-88, 9-88, and 10-88, respectively.
- Storage tank Emission Point 6-88 has permanently been removed from service and deleted.
- Emission rates have been adjusted for the Glyoxal Extraction System Vent, Emission Point 1-88, and the Glyoxal Oxidizers Stack, Emission Point 2-88.
- Emission rates have been reconciled for the Glyoxal Cooling Tower, Emission Point 11-88.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM_{10}	0.07	1.56	+1.49
SO_2	0.006	0.01	+0.004
NO_X	0.93	1.85	+0.92
CO	1.83	1.56	-0.27
VOC *	4.06	7.64	+3.58

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

Pollutant	Before	After	Change
Acetaldehyde	0.074	0.81	+0.736
Ethylene glycol	0.070	0.25	+0.18
Ethylene oxide	0.220	0.64	+0.42
Formaldehyde	0.059	0.94	+0.881
Total	0.423	2.64	+2.217

Other VOC (TPY): 5.00

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

Pollutant	Before	After	Change
Chlorine	-	0.07	+0.07

IV. Type of Review

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

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Facility-wide emissions of acetaldehyde, ethylene oxide, and formaldehyde are emitted in quantities above the Minimum Emission Rate (MER) and are controlled by Maximum Achievable Control Technology (MACT). Ethylene glycol is a Class III TAP, therefore no MACT is required. Air Toxic Compliance Plan No. 92067 dated November 1, 1994, was approved for Geismar site. The requirements of the compliance plan have been incorporated herein.

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>**, 200X; and in the <local paper>, <local town>, on **<date>**, 200X. 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: None

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

Glyoxal Plant
Agency Interest No.: 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana

VIII. General Condition XVII Activities

BASF has identified activities that meet the requirements of General Permit Condition XVII. The activities which BASF has identified for Glyoxal Plant include:

Work Activity	Schedule	Emission Rates - tons				
		PM_{10}	SO_2	NO_X	CO	VOC
Sample Collection	18 samples /day					<0.001
Glyoxal Start-up/Z-855 Inadvertent Trip	40 starts/yr				0.07	
Glyoxal Start-up/Z-855 Inadvertent Trip	40 starts/yr					0.008
Emptying/Draining/Cleaning Equipment	5 /month					0.001
Equipment Maintenance/Repair	300,000 gals/yr					<0.001
Drain D883 to Amines Collection Drums	365 events/yr					<0.001
De-inventory D009 to Tanker	1 event/yr					<0.001
De-inventory T850 to Tanker	6 events/yr					<0.001
De-inventory T801 to Tanker	6 events/yr					<0.001
Total					0.07	**0.015**

IX. Insignificant Activities

ID No.:	Description	Citation
TK-096	Emissions from caustic storage tanks that contain no VOC	LAC 33:III.501.B.5.B.40
TK-097	Emissions from caustic storage tanks that contain no VOC	LAC 33:III.501.B.5.B.40
	Emissions from laboratory equipment/vents used exclusively for routine chemical or physical analysis	LAC 33:III.501.B.5.A.6
G-1	Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than or equal to 0.5 psia	LAC 33:III.501.B.5.A.3
G-2	Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than or equal to 0.5 psia	LAC 33:III.501.B.5.A.3
3-88	Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than or equal to 0.5 psia	LAC 33:III.501.B.5.A.3
	Noncommercial water washing operations of empty drums less than or equal to 55 gallons with less than 3% of the maximum container volume of material	LAC 33:III.501.B.5.A.7

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

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2121	2122	22	29*	51*	53	56	59
GRP031	Plant Wide	1		1	1	1					1					1		1	1
EQT164	1-88 - Glyoxal Extraction System Vent									2						1			
EQT165	5-88 - Glyoxal Storage Tank (TK-891)						3									1			
EQT166	7-88 - Glyoxal Storage Tank (TK-894A)						3									1			
EQT167	8-88 - Glyoxal Storage Tank (TK-894B)						3									1			
EQT169	11-88 - Cooling Tower															1			
EQT171	9-88 - Railcar Loading																		
EQT172	10-88 - Truck Loading																		
EQT526	D-880 – Off gas stream																		
EQT527	D-881 – Off gas stream																		
EQT528	D-882 – Off gas stream																		
EQT529	D-884 – Off gas stream																		
EQT530	Z-855 – Catalytic Oxidizer				1	1										1			
EQT531	R-865 - Catalytic Oxidizer				1	1										1			
EQT532	E-862 – Condenser (bypass)																		
EQT533	D-850 – Distillation Column																		
EQT534	D-860 – Distillation Column																		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Glyoxal Plant
Agency Interest No.: 2049
BASF Corporation
Geismar, Ascension Parish, Louisiana

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

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2121	2122	22	29*	51*	53	56	59
EQT535	T-850 – Quench Column																		
EQT536	T-860 – Stripping Column																		
FUG010	Glyoxal Plant Fugitives (non-HAP)									1		3	1						
FUG011	Glyoxal Plant Fugitives (HAP)									1		3	3			1			
RLP009	2-88 – Glyoxal Oxidizers Stack																		

* 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

Glyoxal Plant
Agency Interest No.: 2049
BASF Corporation
Geismar, Ascension 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	VV	III	NNN	RRR	YYY	A	M	FF	A	F	G	H	Q	51	64	68	82
GRP031	Plant Wide	1									1	1	1	1		1			2	3	1	1
EQT164	1-88 - Glyoxal Extraction System Vent						2	3	3							1						
EQT165	5-88 - Glyoxal Storage Tank (TK-891)		3	3	3											1						
EQT166	7-88 - Glyoxal Storage Tank (TK-894A)		3	3	3											1						
EQT167	8-88 - Glyoxal Storage Tank (TK-894B)		3	3	3											1						
EQT169	11-88 - Cooling Tower														2			3				
EQT171	9-88 - Railcar Loading															1						
EQT172	10-88 - Truck Loading															1						
EQT526	D-880 – Off gas stream																					
EQT527	D-881 – Off gas stream																					
EQT528	D-882 – Off gas stream																					
EQT529	D-884 – Off gas stream																					
EQT530	Z-855 – Catalytic Oxidizer															1						
EQT531	R-865 - Catalytic Oxidizer															1						
EQT532	E-862 – Condenser (bypass)																					
EQT533	D-850 – Distillation Column																					
EQT534	D-860 – Distillation Column																					

Glyoxal Plant
Agency Interest No.: 2049
BASF Corporation
Geismar, Ascension 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	VV	III	NNN	RRR	YYY	A	M	FF	A	F	G	H	Q	51	64	68	82
EQT535	T-850 – Quench Column																					
EQT536	T-860 – Stripping Column																					
FUG010	Glyoxal Plant Fugitives (non-HAP)					1											3					
FUG011	Glyoxal Plant Fugitives (HAP)					3											1					
RLP009	2-88 – Glyoxal Oxidizers Stack																					

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
GRP031 Plant Wide	Compliance Assurance Monitoring (CAM) [40 CFR 64]	**DOES NOT APPLY.** No CAM applicable sources have been identified at the Glyoxal Plant.
EQT164 1-88 - Glyoxal Extraction System Vent	Waste Gas Disposal [LAC 33:III.2115]	**EXEMPT.** Waste gas stream has total VOC ≤ 100 lbs in any continuous 24-hour period. Combined weight of VOC is < 1.0 lb/yr.
EQT165, EQT166, EQT167 (GRP006) Glyoxal Storage Tanks TK-891, TK-894A, TK-894B	Storage of Volatile Organic Compounds [LAC 33:III.2103]	**DOES NOT APPLY.** Vapor pressure of the stored liquids is <1.5 psia.
	NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110]	**DOES NOT APPLY.** Tanks do not store petroleum liquid.
	NSPS Subpart Ka – Storage Vessels for Petroleum Liquids [40 CFR 60.110a]	**DOES NOT APPLY.** Tanks do not store petroleum liquid.
	NSPS Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110b and 116b]	**DOES NOT APPLY.** These tanks were constructed prior to July 23, 1984.

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

ID No:	Requirement	Notes
EQT169 11-88 – Cooling Tower	NESHAP Subpart F – Heat Exchange System Requirements [40 CFR 63.104]	**EXEMPT.** Monitoring is not required for heat exchange systems when the minimum cooling water pressure is at least 35 kPa greater than the maximum process stream pressure. [40 CFR 63.104(a)(1)]. Monitoring is not required for recirculating heat exchange systems used to cool process fluids with < 5 % wt of HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5).
	NESHAP Subpart Q – Industrial Process Cooling Towers [40 CFR 63.400]	**DOES NOT APPLY.** The Glyoxal Plant does not use chromium-based water treatment chemicals in its cooling towers.
EQT171 (GRP032) Railcar Loading EQT172 (GRP032) Truck Loading	Volatile Organic Compounds – Loading [LAC 33:III.2107]	**DOES NOT APPLY.** Glyoxal has a true vapor pressure ≤ 1.5 psia at loading conditions.

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

ID No:	Requirement	Notes
EQT530 (GRP074) Z-855 – Catalytic Oxidizer EQT531 (GRP074) R-865 – Catalytic Oxidizer	Emission Standards for Sulfur Dioxide – Emission Limitations [LAC 33:III.1503]	**EXEMPT.** Unit emits < 250 ton/yr of sulfur compounds.
	Emission Standards for Sulfur Dioxide – Continuous Emissions Monitoring [LAC 33:III.1511]	**EXEMPT.** Source emits < 100 ton/yr of SO2 and does not require continuous monitoring
	Waste Gas Disposal [LAC 33:III.2115]	**EXEMPT.** The final vent gas stream has a combined weight of VOC < 100 lbs in any continuous 24-hour period.
	Limiting VOC Emissions from SOCMI Reactor Process and Distillation Operations [LAC 33:III.2147.A.2.g]	**EXEMPT.** Reactor and distillation processes are subject to NESHAP Subpart G provisions. Stripping Column T-860 and Quench Column T-850 are routed via hard piping to the Catalytic Oxidizers.
	NSPS Subpart III – VOC Emissions from SOCMI Air Oxidation Unit Processes [40 CFR 60.610]	**EXEMPT.** After the compliance dates specified in 40 CFR 63.100 (Subpart F), a Group 1 process vent that is also subject to the provisions of 40 CFR 60 Subpart III is required to comply only with the provisions of 40 CFR 63 Subpart G [40 CFR 63.110(d)(1)].
	NSPS Subpart NNN – VOC Emissions from SOCMI Distillation Operations [40 CFR 60.660]	**DOES NOT APPLY.** Process unit does not produce any chemicals listed in 40 CFR 60.667.
	NSPS Subpart RRR – VOC Emissions from SOCMI Reactor Processes [40 CFR 60.700]	**DOES NOT APPLY.** Process unit does not produce any chemicals listed in 40 CFR 60.707.

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

ID No:	Requirement	Notes
FUG010 4-88(a) – Glyoxal Plant Fugitives (non-HAP emissions)	Fugitive Emissions Control [LAC 33:III.2121]	**DOES NOT APPLY.** Sources are subject to LAC 33:III.2122; therefore, they are not required to comply with this rule per LAC 33:III.2122.A.5.
	NESHAP Subpart H – Hazardous Air Pollutant Equipment Leaks [40 CFR 63.160]	**DOES NOT APPLY.** Glyoxal Plant non-VOHAP VOC components shall comply with all applicable provisions of LAC 33:III.2122.
FUG011 4-88(b) – Glyoxal Plant Fugitives (HAP emissions)	Fugitive Emissions Control [LAC 33:III.2121]	**DOES NOT APPLY.** Sources are subject to LAC 33:III.2122; therefore, they are not required to comply with this rule per LAC 33:III.2122.A.5.
	Fugitive Emissions Control for Ozone Nonattainment Areas [LAC 33:III.2122]	**DOES NOT APPLY.** Glyoxal Plant VOHAP components are subject to NESHAP Subpart H fugitive monitoring requirements.
	NSPS Subpart VV – Equipment Leaks of VOC in SOCMI [40 CFR 60.480]	**DOES NOT APPLY.** Sources comply with NESHAP Subpart H [40 CFR 63.160-182] per 40 CFR 63.160(b)(1).

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 February 2, 2005, along with supplemental information dated April 22, 2005 and February 27, 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: 2049 BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

Also Known As:

ID	Name	User Group	Start Date
1923606-001w	Tax Exempt No	Accident Prevention	11-20-1999
0180-00013	BASF Corp - Geismar Site	CDS Number	05-27-1993
0180-0013	BASF Corp - Geismar Site	Emission Inventory	02-25-2004
LAD040776809	BASF Corp	Hazardous Waste Notification	08-13-1980
PMT/PC/CA	GRPA Baselines	Hazardous Waste Permitting	10-01-1997
00095	BASF Corp	Inactive & Abandoned Sites	06-09-1981
LAD040776809	BASF Wyandotte Corp	Inactive & Abandoned Sites	06-09-1981
LA0002950	WPC File Number	LPDES Permit #	05-22-2003
LAR10A929	NPDES Fed Number	LPDES Permit #	05-22-2003
LAR10B055	WPC File Number	LPDES Permit #	05-22-2003
LAR10B264	LPDES #	LPDES Permit #	03-21-2003
LAR10B444	LPDES #	LPDES Permit #	12-12-2004
WP2101	WPC State Permit Number	LWDPS Permit #	06-25-2003
LA-2304-L01	Radioactive Material License	Radiation License Number	11-03-2000
GD-005-1425	Site ID #	Solid Waste Facility No.	12-11-2000
104720	BASF Corp	TEMPO Merge	05-17-2004
11412	BASF Wyandotte	TEMPO Merge	10-30-2000
16872	BASF Corp - Ecology	TEMPO Merge	12-11-2002
19954	BASF Wyandotte Corp Geismar Works Chem Div	TEMPO Merge	10-30-2000
38802	BASF Corp	TEMPO Merge	10-30-2000
40717	BASF Corp	TEMPO Merge	10-30-2000
49922	BASF Wyandotte Corp	TEMPO Merge	10-30-2000
87014	BASF Corp - Site Drainage Improvements Phase 2	TEMPO Merge	08-23-2004
0180-0013	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70734BSFCRRIVER	TRI #	Toxic Release Inventory	07-09-2004
03000346	UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-11-2002
WQC 000831-04	BASF Corp - Site Drainage Improvements Phase 2	Water Certification	10-18-2000
WQC 980504-02	Water Quality Certification #	Water Certification	12-03-2002
WQC 990720-02	Water Quality Certification #	Water Certification	07-20-1999
WQC RC 040914-03	Water Quality Certification # Tank Terminal & Road Project	Water Certification	09-15-2004

Physical Location:
8404 Hwy 75
Geismar, LA 70734

Main FAX: 2253392369
Main Phone: 2253397300

TPOR0148

General Information

AI ID: 2049 BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

Mailing Address: PO Box 457
Geismar, LA 707340457

Location of Front Gate: 30° 12' 37" 61 hundredths latitude, 91° 0' 54" 94 hundredths longitude, Coordinate Method: GPS Code (Psuedo Range) Differential, Coordinate Datum: NAD83

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392963 (WP)	Accident Prevention Contact for
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Accident Prevention Contact for
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392963 (WP)	Accident Prevention Billing Party for
Bryan Brooks	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Accident Prevention Billing Party for
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Water Permit Contact For
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Water Permit Contact For
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Solid Waste Billing Party for
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Haz. Waste Billing Party for
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392043 (WP)	Water Billing Party for
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Water Billing Party for
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Haz. Waste Billing Party for
Eric Hillman	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Solid Waste Billing Party for
Tanner Martinez	PO Box 457 Geismar, LA 707340457	2253397309 (WP)	Radiation Safety Officer for
Tanner Martinez	PO Box 457 Geismar, LA 707340457	2253397309 (WP)	Radiation License Billing Party for
Tanner Martinez	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Radiation License Billing Party for
Tanner Martinez	PO Box 457 Geismar, LA 707340457	2257153741 (CP)	Radiation License Billing Party for
Tanner Martinez	PO Box 457 Geismar, LA 707340457	2257153741 (CP)	Radiation Safety Officer for
Tanner Martinez	PO Box 457 Geismar, LA 707340457	2253392369 (WF)	Radiation Safety Officer for

Related Organizations:

Name	Address	Phone (Type)	Relationship
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Operates
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Owns
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	Air Billing Party for
BASF Corp	PO Box 457 Geismar, LA 707340457	2253397300 (WP)	UST Billing Party for
Turner Industrial LLC	8687 United Plaza Blvd Baton Rouge, LA 70809		Agent of Service for

SIC Codes: 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: 2049 - BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT164	1-88 - Glyoxal Extraction System Vent		4000 lb/hr	4000 lb/hr		8760 hr/yr (All Year)
EQT165	5-88 - Glyoxal Storage Tank (TK-891)	200000 gallons		5 MM gallons/yr		8760 hr/yr (All Year)
EQT166	7-88 - Glyoxal Storage Tank (TK-894A)	20000 gallons		2.5 MM gallons/yr		8760 hr/yr (All Year)
EQT167	8-88 - Glyoxal Storage Tank (TK-894B)	20000 gallons		2.5 MM gallons/yr		8760 hr/yr (All Year)
EQT169	11-88 - Cooling Tower		4000 gallons/min	4000 gallons/min		8760 hr/yr (All Year)
EQT171	9-88 - Railcar Loading		55 MM gallons/yr	55 MM gallons/yr		8760 hr/yr (All Year)
EQT172	10-88 - Truck Loading		55 MM gallons/yr	55 MM gallons/yr		8760 hr/yr (All Year)
EQT526	D-880 - Off gas stream					8760 hr/yr (All Year)
EQT527	D-881 - Off gas stream					8760 hr/yr (All Year)
EQT528	D-882 - Off gas stream					8760 hr/yr (All Year)
EQT529	D-884 - Off gas stream					8760 hr/yr (All Year)
EQT530	Z-855 - Catalytic Oxidizer					8760 hr/yr (All Year)
EQT531	R-865 - Catalytic Oxidizer					8760 hr/yr (All Year)
EQT532	E-862 - Condenser (bypass)					96 hr/yr (All Year)
EQT533	D-850 - Distillation Column					8760 hr/yr (All Year)
EQT534	D-860 - Distillation Column					8760 hr/yr (All Year)
EQT535	T-850 - Quench Column					8760 hr/yr (All Year)
EQT536	T-860 - Sripping Column					8760 hr/yr (All Year)
FUG010	4-88(a) - Glyoxal Plant Fugitives (non-HAP emissions)		4000 lb/hr			8760 hr/yr (All Year)
FUG011	4-88(b) - Glyoxal Plant Fugitives (HAP emissions)		4000 lb/hr			8760 hr/yr (All Year)
RLP009	2-88 - Glyoxal Oxidizers Stack		4000 lb/hr	4000 lb/hr		8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Glyoxal Tanks	EQT165 5-88 - Glyoxal Storage Tank (TK-891)
GRP006	Glyoxal Tanks	EQT166 7-88 - Glyoxal Storage Tank (TK-894A)
GRP006	Glyoxal Tanks	EQT167 8-88 - Glyoxal Storage Tank (TK-894B)
GRP031	Glyoxal Plant	EQT164 1-88 - Glyoxal Extraction System Vent
GRP031	Glyoxal Plant	EQT165 5-88 - Glyoxal Storage Tank (TK-891)
GRP031	Glyoxal Plant	EQT166 7-88 - Glyoxal Storage Tank (TK-894A)
GRP031	Glyoxal Plant	EQT167 8-88 - Glyoxal Storage Tank (TK-894B)
GRP031	Glyoxal Plant	EQT169 11-88 - Cooling Tower
GRP031	Glyoxal Plant	EQT171 9-88 - Railcar Loading
GRP031	Glyoxal Plant	EQT172 10-88 - Truck Loading
GRP031	Glyoxal Plant	EQT526 D-880 - Off gas stream
GRP031	Glyoxal Plant	EQT527 D-881 - Off gas stream

INVENTORIES

AI ID: 2049 - BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP031	Glyoxal Plant	EQT528 D-882 - Off gas stream
GRP031	Glyoxal Plant	EQT529 D-884 - Off gas stream
GRP031	Glyoxal Plant	EQT530 Z-855 - Catalytic Oxidizer
GRP031	Glyoxal Plant	EQT531 R-865 - Catalytic Oxidizer
GRP031	Glyoxal Plant	EQT532 E-862 - Condenser (bypass)
GRP031	Glyoxal Plant	EQT533 D-850 - Distillation Column
GRP031	Glyoxal Plant	EQT534 D-860 - Distillation Column
GRP031	Glyoxal Plant	EQT535 T-850 - Quench Column
GRP031	Glyoxal Plant	EQT536 T-860 - Sripping Column
GRP031	Glyoxal Plant	FUG10 4-88(a) - Glyoxal Plant Fugitives (non-HAP emissions)
GRP031	Glyoxal Plant	FUG11 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)
GRP031	Glyoxal Plant	GRP32 Glyoxal Loading
GRP031	Glyoxal Plant	RLP9 2-88 - Glyoxal Oxidizers Stack
GRP032	Glyoxal Loading	EQT171 9-88 - Railcar Loading
GRP032	Glyoxal Loading	EQT172 10-88 - Truck Loading
GRP074	Glyoxal Oxidizers	EQT530 Z-855 - Catalytic Oxidizer
GRP074	Glyoxal Oxidizers	EQT531 R-865 - Catalytic Oxidizer

Relationships:

Subject Item	Relationship	Subject Item
EQT164 1-88 - Glyoxal Extraction System Vent	Controlled by	EQT531 R-865 - Catalytic Oxidizer
EQT526 D-880 - Off gas stream	Vents to	EQT164 1-88 - Glyoxal Extraction System Vent
EQT527 D-881 - Off gas stream	Vents to	EQT164 1-88 - Glyoxal Extraction System Vent
EQT528 D-882 - Off gas stream	Vents to	EQT164 1-88 - Glyoxal Extraction System Vent
EQT529 D-884 - Off gas stream	Vents to	EQT164 1-88 - Glyoxal Extraction System Vent
EQT530 Z-855 - Catalytic Oxidizer	Vents to	RLP9 2-88 - Glyoxal Oxidizers Stack
EQT531 R-865 - Catalytic Oxidizer	Vents to	RLP9 2-88 - Glyoxal Oxidizers Stack
EQT532 E-862 - Condenser (bypass)	Vents to	RLP9 2-88 - Glyoxal Oxidizers Stack
EQT533 D-850 - Distillation Column	Controlled by	EQT530 Z-855 - Catalytic Oxidizer
EQT534 D-860 - Distillation Column	Controlled by	EQT531 R-865 - Catalytic Oxidizer
EQT535 T-850 - Quench Column	Controlled by	EQT530 Z-855 - Catalytic Oxidizer
EQT536 T-860 - Sripping Column	Controlled by	EQT531 R-865 - Catalytic Oxidizer

Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT164	1-88 - Glyoxal Extraction System Vent	.1	.33	.25		54	100
EQT165	5-88 - Glyoxal Storage Tank (TK-891)					24	

INVENTORIES

AI ID: 2049 - BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT166	7-88 - Glyoxal Storage Tank (TK-894A)					24	
EQT167	8-88 - Glyoxal Storage Tank (TK-894B)					24	
EQT171	9-88 - Railcar Loading			.5		12	
EQT172	10-88 - Truck Loading	.1	.33	.5		12	100
RLP009	2-88 - Glyoxal Oxidizers Stack	50	3250	1.17		95	95

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
AI2049	1	MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)
GRP006	55	MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

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 164 1-88													0.001	0.001	0.01
EQT 165 5-88													0.001	0.001	0.01
EQT 166 7-88													0.001	0.001	0.01
EQT 167 8-88													0.001	0.001	0.01
EQT 169 11-88	0.32	0.41	1.42										0.17	0.17	0.74
EQT 171 9-88													0.001	0.001	0.01
EQT 172 10-88													0.001	0.001	0.01
FUG 010 4-88													0.18	0.18	0.81
FUG 011 4-88(b)													0.02	0.02	0.09
RLP 009 2-88	0.03	0.05	0.14	0.003	0.003	0.01	0.42	0.64	1.85	0.36	0.53	1.56	1.36	2.04	5.94

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

Permit Phase Totals:

PM10: 1.56 tons/yr

SO2: 0.01 tons/yr

NOx: 1.85 tons/yr

CO: 1.56 tons/yr

VOC: 7.64 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

All phases

	Acetaldehyde			Chlorine			Ethylene glycol			Ethylene oxide			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 165 5-88							0.001	0.001	0.01						
EQT 166 7-88							0.001	0.001	0.01						
EQT 167 8-88							0.001	0.001	0.01						
EQT 169 11-88				0.02	0.02	0.07									
FUG 011 4-88(b)							0.02	0.02	0.09						
RLP 009 2-88	0.18	0.28	0.81				0.03	0.04	0.13	0.15	0.22	0.64	0.22	0.32	0.94

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

Permit Parameter Totals:

Acetaldehyde: 0.81 tons/yr

Chlorine: 0.07 tons/yr

Ethylene glycol: 0.25 tons/yr

Ethylene oxide: 0.64 tons/yr

Formaldehyde: 0.94 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp
Activity Number: PER20050001
Permit Number: 2094-V1
Air - Title V Regular Permit Renewal

EQT164 1-88 - Glyoxal Extraction System Vent

1 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Reduce emissions by 98 wt% or to a concentration of < 20 ppmv, whichever is less stringent as determined as MACT. [LAC 33:III.5109.A]

2 Organic HAP < 50 ppmv. Subpart G. [40 CFR 63.113(g)]
Which Months: All Year Statistical Basis: None specified

3 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]

4 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the information specified in 40 CFR 63.118(e)(1) through (e)(3). Subpart G. [40 CFR 63.118(e)]

5 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent to become a Group 1 process vent. Include the information specified in 40 CFR 63.118(g)(1) through (g)(3). Subpart G. [40 CFR 63.118(g)]

6 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with an organic HAP concentration less than 50 ppmv to become a Group 2 process vent with an organic HAP concentration of 50 ppmv or greater and a TRE index value less than or equal to 4.0. Include the information specified in 40 CFR 63.118(j)(1) through (j)(3). Subpart G. [40 CFR 63.118(j)]

EQT169 11-88 - Cooling Tower

7 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report. (TEDI). [LAC 33:III.5107.A.2]

FUG010 4-88(a) - Glyoxal Plant Fugitives (non-HAP emissions)

8 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

9 Repair according to LAC 33:III.2122.C.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2122.C.1.d. [LAC 33:III.2122.C.1.c]

10 Pumps and valves in heavy liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if observed leaking by sight, sound, or smell. Repair according to LAC 33:III.2122.C.3 if the pump or valve is determined to be leaking in excess of the applicable limits given in LAC 33:III.2122. [LAC 33:III.2122.C.1.d]
Which Months: All Year Statistical Basis: None specified

11 Do not locate any valve, except safety pressure relief valves, at the end of a pipe or line containing volatile organic compounds unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device. [LAC 33:III.2122.C.2]

12 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided. [LAC 33:III.2122.C.3]

13 Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4. [LAC 33:III.2122.C.4]

14 Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5. [LAC 33:III.2122.C.5]

15 Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.a]
Which Months: All Year Statistical Basis: None specified

16 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.i]
Which Months: All Year Statistical Basis: None specified

FUG010 4-88(a) - Glyoxal Plant Fugitives (non-HAP emissions)

17 Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.ii]
Which Months: All Year Statistical Basis: None specified

18 Valves in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.iii]
Which Months: All Year Statistical Basis: None specified

19 Pumps in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.iv]
Which Months: All Year Statistical Basis: None specified

20 Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.v]
Which Months: All Year Statistical Basis: None specified

21 Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times a year). [LAC 33:III.2122.D.1.c]
Which Months: All Year Statistical Basis: None specified

22 Flanged connectors: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.d.i]
Which Months: All Year Statistical Basis: None specified

23 Flanged connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly. [LAC 33:III.2122.D.1.d.ii]
Which Months: All Year Statistical Basis: None specified

24 Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.e]
Which Months: All Year Statistical Basis: None specified

25 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 1,000 ppmv or greater (for petroleum refineries, SOCMI, MTBE, and polymer manufacturing industry) or 2,500 ppmv or greater (for natural gas processing plants) is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.a]
Which Months: All Year Statistical Basis: None specified

26 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.b]
Which Months: All Year Statistical Basis: None specified

27 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum). [LAC 33:III.2122.D.3.c]
Which Months: All Year Statistical Basis: None specified

28 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely. [LAC 33:III.2122.D.3.d]
Which Months: All Year Statistical Basis: None specified

29 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired. [LAC 33:III.2122.F.1]

30 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request. [LAC 33:III.2122.F]

FUG010 4-88(a) - Glyoxal Plant Fugitives (non-HAP emissions)

31 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Air Quality Assessment Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. [LAC 33:III.2122.G]

32 Equipment/operational data recordkeeping by logbook continuously. Record and keep the specified information in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480(d). Subpart VV. [40 CFR 60.486(i)]

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

33 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

34 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]

35 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]

36 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]

37 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]

38 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]

39 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]

40 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
Which Months: All Year Statistical Basis: None specified

41 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
Which Months: All Year Statistical Basis: None specified

42 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]

43 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]

44 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]

FUG011 **4-88(b) - Glyoxal Plant Fugitives (HAP emissions)**

45 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]

46 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]

47 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]

48 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
Which Months: All Year Statistical Basis: None specified

49 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]

50 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]

51 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
Which Months: All Year Statistical Basis: None specified

52 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (e)(4), and the daily requirements of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)]
Which Months: All Year Statistical Basis: None specified

53 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]

54 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
Which Months: All Year Statistical Basis: None specified

55 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

56 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]

57 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]

58 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]

59 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]

60 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]

61 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
Which Months: All Year Statistical Basis: None specified

62 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
Which Months: All Year Statistical Basis: None specified

63 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
Which Months: All Year Statistical Basis: None specified

64 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]

65 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
Which Months: All Year Statistical Basis: None specified

66 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]

67 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]

68 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]

69 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

70 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified

71 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
Which Months: All Year Statistical Basis: None specified

72 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
Which Months: All Year Statistical Basis: None specified

73 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]

74 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
Which Months: All Year Statistical Basis: None specified

75 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]

76 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]

77 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
Which Months: All Year Statistical Basis: None specified

78 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]

79 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)]
Which Months: All Year Statistical Basis: None specified

80 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
Which Months: All Year Statistical Basis: None specified

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

81 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]

82 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

83 Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
Which Months: All Year Statistical Basis: None specified

84 Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
Which Months: All Year Statistical Basis: None specified

85 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
Which Months: All Year Statistical Basis: None specified

86 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
Which Months: All Year Statistical Basis: None specified

87 Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]

88 Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]

89 Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]
Which Months: All Year Statistical Basis: None specified

90 Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]

91 Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
Which Months: All Year Statistical Basis: None specified

92 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

93 Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
Which Months: All Year Statistical Basis: None specified

94 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]

95 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
Which Months: All Year Statistical Basis: None specified

96 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
Which Months: All Year Statistical Basis: None specified

97 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]

98 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]

99 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]

100 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]

101 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
Which Months: All Year Statistical Basis: None specified

102 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]

103 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

104 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
Which Months: All Year Statistical Basis: None specified

105 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]
Which Months: All Year Statistical Basis: None specified

106 Agitators in gas/vapor service or light liquid service (difficult to monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]

107 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
Which Months: All Year Statistical Basis: None specified

108 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]

109 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
Which Months: All Year Statistical Basis: None specified

110 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
Which Months: All Year Statistical Basis: None specified

111 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
Which Months: All Year Statistical Basis: None specified

112 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified

113 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified

114 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]

FUG011 4-88(b) - Glyoxal Plant Fugitives (HAP emissions)

115 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
Which Months: All Year Statistical Basis: None specified

116 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]

117 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]

118 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
Which Months: All Year Statistical Basis: None specified

119 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]

120 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]

121 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]

122 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]

123 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]

124 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

125 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]

126 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

GRP006 Glyoxal Tanks

127 Emits Class III TAP only. MACT is not required. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report. (TEDI). [LAC 33:III.5107.A.2]

128 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

GRP031 Glyoxal Plant

GRP031 Glyoxal Plant

129 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]

130 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

131 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]

132 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

133 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]

134 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]

135 Acetaldehyde <= 0.81 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

136 Chlorine <= 0.07 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

137 Ethylene glycol <= 0.25 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

138 Ethylene oxide <= 0.64 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

139 Formaldehyde <= 0.94 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

140 Particulate matter (10 microns or less) <= 1.56 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

141 VOC, Total <= 7.64 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

142 Sulfur dioxide <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

143 Carbon monoxide <= 1.56 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

144 Nitrogen oxides <= 1.85 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

145 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]

146 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]

147 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]

148 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]

GRP031 Glyoxal Plant

149 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]

150 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]

151 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]

152 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]

153 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]

154 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]

155 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]

156 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]

157 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]

158 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]

159 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]

160 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]

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

GRP031 Glyoxal Plant

162 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]

163 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]

164 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]

165 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]

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

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

168 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]

169 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]

170 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]

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

172 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]

173 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]

174 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]

175 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]

176 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]

177 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]

178 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]

179 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]

180 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]

GRP031 Glyoxal Plant

181 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]

182 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]

183 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]

184 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]

185 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. [LAC 33:III.5609.A]

186 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]

187 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]

188 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]

189 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

190 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)]

191 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]

192 Benzene <= 6 Mg/yr (6.6 ton/yr), as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)(2)(i)]
Which Months: All Year Statistical Basis: None specified

193 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]

194 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]

195 Submit report: Due annually and 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 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]

196 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]

197 Control emissions of organic HAP's to the level represented by the equation listed in 40 CFR 63.112(a). Subpart G. [40 CFR 63.112(a)]

198 Submit Periodic Reports: Due semiannually no later than 60 calendar days after the end of each 6-month period, except as specified in 40 CFR 63.152(c)(5) and (c)(6). Submit the first report no later than 8 months after the date the Notification of Compliance Status is due. Include the information specified in 40 CFR 63.152(c)(2) through (c)(4). Subpart G. [40 CFR 63.152(c)]

199 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 3 of 40 CFR 63 Subpart F. [40 CFR 63]

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

GRP031 Glyoxal Plant

201 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)]

202 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)]

203 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)]

GRP032 Glyoxal Loading

204 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.130(f)(1) through (f)(3). Subpart G. [40 CFR 63.130]

GRP074 Glyoxal Oxidizers

205 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified

206 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]

207 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Process vents containing acetaldehyde, ethylene oxide, and formaldehyde, are routed to two process vent oxidizers which are 98% efficient. [LAC 33:III.5109.A]

208 Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified

209 Temperature monitored by temperature monitoring device continuously. 'Equip the temperature monitoring device with a continuous recorder and install in the gas stream immediately before and after the catalyst bed. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified

210 Conduct a performance test using the procedures in 40 CFR 63.116(c)(1) through (c)(4). Subpart G. [40 CFR 63.116(c)]

211 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

212 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]