

# ATTACHMENT A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM

Permit No. 3467B

These attachments (A-1, A-2, and A-3) list the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for a consolidated permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Lbs/Hour
B-001	Storage Tank B-1	VOC	77.19
B-002	Storage Tank B-2	VOC	77.19
B-003	Storage Tank B-3	VOC	77.19
B-004	Storage Tank B-4	VOC	77.19
B-005	Storage Tank B-5	VOC	77.19
B-006	Storage Tank B-6	VOC	77.19
B-007	Storage Tank B-7	VOC	77.19
B-008	Storage Tank B-8	VOC	77.19
B-009	Storage Tank B-9	VOC	77.19
B-010	Storage Tank B-10	VOC	77.19
B-011	Storage Tank B-11	VOC	77.19
B-012	Storage Tank B-12	VOC	77.19
B-014	Storage Tank B-14	VOC	77.19
B-015	Storage Tank B-15	VOC	77.19
B-016	Storage Tank B-16	VOC	77.19

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
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				AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>
B-017	Storage Tank B-17		VOC	77.19
B-018	Storage Tank B-18		VOC	77.19
B-019	Storage Tank B-19		VOC	77.19
B-020	Storage Tank B-20		VOC	77.19
B-021	Storage Tank B-21		VOC	77.19
B-022	Storage Tank B-22		VOC	77.19
B-023	Storage Tank B-23		VOC	77.19
B-024	Storage Tank B-24		VOC	77.19
B-025	Storage Tank B-25		VOC	77.19
B-026	Storage Tank B-26		VOC	77.19
B-027	Storage Tank B-27		VOC	77.19
B-028	Storage Tank B-28		VOC	77.19
B-029	Storage Tank B-29		VOC	77.19
B-030	Storage Tank B-30		VOC	77.19
B-031	Storage Tank B-31		VOC	77.19
B-032	Storage Tank B-32		VOC	77.19
B-033	Storage Tank B-33		VOC	77.19
B-034	Storage Tank B-34		VOC	77.19

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				AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>
B-035	Storage Tank B-35		VOC	77.19
B-036	Storage Tank B-36		VOC	77.19
B-037	Storage Tank B-37		VOC	77.19
B-038	Storage Tank B-38		VOC	77.19
B-039	Storage Tank B-39		VOC	77.19
B-040	Storage Tank B-40		VOC	77.19
B-200	Storage Tank B-200		VOC	86.83
B-201	Storage Tank B-201		VOC	86.83
B-202	Storage Tank B-202		VOC	86.83
B-203	Storage Tank B-203		VOC	86.83
B-204	Storage Tank B-204		VOC	86.83
B-205	Storage Tank B-205		VOC	86.83
B-206	Storage Tank B-206		VOC	86.83
B-207	Storage Tank B-207		VOC	86.83
B-208	Storage Tank B-208		VOC	86.83
B-209	Storage Tank B-209		VOC	86.83
B-210	Storage Tank B-210		VOC	86.83
B-211	Storage Tank B-211		VOC	86.83

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				AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>
B-212	Storage Tank B-212		VOC	77.19
B-213	Storage Tank B-213		VOC	77.19
B-214	Storage Tank B-214		VOC	86.83
B-215	Storage Tank B-215		VOC	86.83
B-216	Storage Tank B-216		VOC	77.19
B-217	Storage Tank B-217		VOC	86.83
B-218	Storage Tank B-218		VOC	86.83
B-219	Storage Tank B-219		VOC	86.83
B-220	Storage Tank B-220		VOC	86.83
B-300	Storage Tank B-300		VOC	115.78
B-301	Storage Tank B-301		VOC	115.78
B-302	Storage Tank B-302		VOC	115.78
B-303	Storage Tank B-303		VOC	115.78
B-304	Storage Tank B-304		VOC	115.78
B-305	Storage Tank B-305		VOC	115.78
B-306	Storage Tank B-306		VOC	115.78
B-307	Storage Tank B-307		VOC	115.78
B-308	Storage Tank B-308		VOC	115.78

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				AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>
B-309	Storage Tank B-309		VOC	115.78
B-310	Storage Tank B-310		VOC	115.78
B-311	Storage Tank B-311		VOC	115.78
B-400	Storage Tank B-400		VOC	46.32
B-401	Storage Tank B-401		VOC	46.32
B-402	Storage Tank B-402		VOC	46.32
B-403	Storage Tank B-403		VOC	46.32
B-404	Storage Tank B-404		VOC	46.32
B-405	Storage Tank B-405		VOC	46.32
B-406	Storage Tank B-406		VOC	46.32
B-407	Storage Tank B-407		VOC	46.32
B-408	Storage Tank B-408		VOC	46.32
B-409	Storage Tank B-409		VOC	46.32
B-410	Storage Tank B-410		VOC	46.32
B-411	Storage Tank B-411		VOC	46.32
B-412	Storage Tank B-412		VOC	46.32
B-413	Storage Tank B-413		VOC	46.32
B-414	Storage Tank B-414		VOC	46.32

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				AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>
B-415	Storage Tank B-415		VOC	46.32
B-416	Storage Tank B-416		VOC	46.32
B-417	Storage Tank B-417		VOC	46.32
B-418	Storage Tank B-418		VOC	46.32
B-419	Storage Tank B-419		VOC	46.32
B-500	Storage Tank B-500		VOC	68.82
B-501	Storage Tank B-501		VOC	68.82
B-502	Storage Tank B-502		VOC	68.82
B-503	Storage Tank B-503		VOC	68.82
B-504	Storage Tank B-504		VOC	68.82
B-505	Storage Tank B-505		VOC	68.82
B-506	Storage Tank B-506		VOC	68.82
B-507	Storage Tank B-507		VOC	68.82
B-508	Storage Tank B-508		VOC	68.82
B-509	Storage Tank B-509		VOC	68.82
B-510	Storage Tank B-510		VOC	68.82
B-511	Storage Tank B-511		VOC	68.82
B-512	Storage Tank B-512		VOC	68.82

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
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				AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>
B-513	Storage Tank B-513		VOC	68.82
B-514	Storage Tank B-514		VOC	68.82
B-515	Storage Tank B-515		VOC	68.82
B-600	Storage Tank B-600		VOC	86.83
B-700	Storage Tank B-700		VOC	10.90
LR-1	Tank Truck/Rail Car Loading Rack (34 Spots)		VOC	43.28 (per spot)
LR-2	Tank Truck Loading Rack (4 Spots)		VOC	13.52 (per spot)
LR-3	Tank Truck Loading Rack (6 Spots)		VOC	13.52 (per spot)
LR-4	Rail Car Loading Rack (24 Spots)		VOC	43.28 (per spot)
SRT 1-5	Tank Truck Unloading Rack		VOC	(5)
MT-1	Marine Terminal Vessel Dock No. 1		VOC	22.72
MT-2	Marine Terminal Vessel Dock No. 2		VOC	22.72
BG-1	Barge Dock (4 Berths)		VOC	56.80
FL-1	Loading Rack Flare No. 1		VOC NO <sub>x</sub>	14.99 0.79

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				AIR CONTAMINANTS DATA	
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant Lbs/Hour	<u>Emission Rates *</u>	
			CO	6.81	
FL-2	Styrene Flare		VOC	14.99	
			NO <sub>x</sub>	0.79	
			CO	6.81	
FL-3	Loading Rack Flare No. 2		VOC	14.99	
			NO <sub>x</sub>	0.79	
			CO	6.81	
FL-4	Propylene Oxide Marine Flare		VOC	33.25	
			NO <sub>x</sub>	2.08	
			CO	17.92	
FL-5	Marine Flare (Future)		VOC	33.25	
			NO <sub>x</sub>	2.08	
			CO	17.92	
FUG	Process Fugitives (4)		VOC	3.20	
BLR-3	Cleaver Brooks Steam Boiler (600 Horsepower)		VOC	0.07	
			NO <sub>x</sub>	3.48	
			CO	0.87	
			SO <sub>2</sub>	0.36	
			PM <sub>10</sub>	0.15	
BLR-4	Reliance 3WB350 Steam Boiler (350 Horsepower)		VOC	0.04	
			NO <sub>x</sub>	2.09	
			CO	0.52	
			SO <sub>2</sub>	0.21	
			PM <sub>10</sub>	0.09	



# ATTACHMENT A-2

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

Permit No. 3467B

Effective from the date of permit issuance through November 15, 1996

### AIR CONTAMINANTS DATA

<u>Emission Point No. (1)</u>	<u>Source Name (2)</u>	<u>Name (3)</u>	<u>Air Contaminant Tons/Year</u>	<u>Emission Rates *</u>
B-001 thru B-700	Storage Tanks		VOC	100.00
LR-1 thru LR-4	Truck/Rail Loading, All Spots (No Controls)		VOC	6.65
BG-1, MT-1, MT-2	Barge/Ship Loading, All Docks (No Controls)		VOC	83.00
FL-1, FL-2, FL-3	Flares - Land Based		VOC	5.00
			NO <sub>x</sub>	0.24
			CO	2.08
FL-4, FL-5	Flares - Marine Loading		VOC	22.00
			NO <sub>x</sub>	1.04
			CO	8.96
BLR-3 and BLR-4	Steam Boilers		VOC	0.44
			NO <sub>x</sub>	22.26
			CO	5.56
			SO <sub>2</sub>	2.27
			PM <sub>10</sub>	0.99
FUG	Fugitives (4)		VOC	14.00

# ATTACHMENT A-3

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

Permit No. 3467B

Effective After November 15, 1996

### AIR CONTAMINANTS DATA

<u>Emission Point No. (1)</u>	<u>Source Name (2)</u>	<u>Name (3)</u>	<u>Air Contaminant Tons/Year</u>	<u>Emission Rates *</u>
B-001 thru B-700	Storage Tanks		VOC	100.00
LR-1 thru LR-4	Truck/Rail Loading, All Spots (No Controls)		VOC	4.00
BG-1, MT-1, MT-2	Barge/Ship Loading, All Docks (No Controls)		VOC	14.72
FL-1, FL-2, FL-3	Flares - Land Based		VOC	5.00
			NO <sub>x</sub>	0.24
			CO	2.08
FL-4, FL-5	Flares - Marine Loading		VOC	22.00
			NO <sub>x</sub>	1.04
			CO	8.96
BLR-3 and BLR-4	Steam Boilers		VOC	0.44
			NO <sub>x</sub>	22.26
			CO	5.56
			SO <sub>2</sub>	2.27
			PM <sub>10</sub>	0.99
FUG	Fugitives (4)		VOC	14.00

The following applies to Attachments A-1, A-2, and A-3:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3)
  - PM - particulate matter
  - PM<sub>10</sub> - particulate matter less than 10 microns in diameter
  - VOC - volatile organic compounds as defined in General Rule 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide

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CO - carbon monoxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Unloading, vapor balance, or vapor control service only (no emissions).

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day\_\_\_Days/week\_\_\_Weeks/year\_\_\_or Hrs/year 8,760

Dated \_\_\_\_\_