Permit No. 18836

This table lists 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 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.

Emission *	Source	Ai	r Contamina	nt <u>Emissio</u>	n Rates
Point No. (1)	Name (2)		Name (3)1b	/hr	TPY
<u>Interim limits</u> - Tof Train 4:	he following emission	ra	ites are ef	fective until s	tart-up
CB-1	Compounding Building	1	VOC PM <sub>10</sub>	6.20 0.09	27.20 0.35
CB-2	Compounding Building	2	VOC PM <sub>10</sub>	2.40 0.06	10.20 0.27
CT-711	Cooling Tower (4)		VOC	1.05	4.60
CT-711A	Cooling Tower (4)		VOC	0.84	3.68
FLARE	Facility Flare		VOC NO <sub>x</sub> CO SO <sub>2</sub>	54.0 16.9 122.1 0.01	20.0 8.9 45.3 0.05
FUGITIVE	Process Fugitives (4)	)	VOC	4.65	20.37
HF-405	Bag Unloading Filter		$PM_{10}$	0.20	0.05
HF-415	Additive Baghouse		PM <sub>10</sub>	0.65	2.83
HF-463	Railcar Unloading Ba 0.44	gho	use	$PM_{10}$	0.10
HF-481	Vacuum Cleaning Bagh	ous	e	$PM_{10}$	6.00

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<b>Emission Rates</b>
* Point No. (1)	Name (2)	Name (3)1b/hr	TPY

1.40

Emission *	Source	Air Contaminant	<u>Emis</u>	sion Rates
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
<u>Interim limits</u> (co	ontinued)			
BOILERS: Case 1 -	- Natural gas/plant fu	uel gas		
HH-731A, HH-731B	Boilers A and B	$VOC$ $NO_x$ $CO$ $SO_2$ $PM/PM_{10}$	0.22 11.16 2.79 1.05 1.09	0.97 48.87 12.22 4.62 4.88
BOILERS: Case by-product liquid	<u>2 - Combination of wax</u>	natural gas/plan	<u>t fuel</u>	gas plus
HH-731A, HH-731B	Boilers A and B	$VOC$ $NO_{\times}$ $CO$ $SO_{2}$ $PM$ $PM_{10}$ $HC$	0.50 10.86 2.80 2.90 10.17 8.20 2.23	1.42 48.21 12.24 8.67 24.71 20.38 4.88
HST-101	Catalyst Preparation 0.68 ondenser (Backup servi		VOC	61.0
HT-171	Toluene Tank	VOC	0.18	0.11
HT-601	Solvent Tank	VOC	0.40	0.72
HT-602	Solvent Tank	VOC	1.08	2.30
HT-606	Solvent Tank	VOC	0.58	1.02
HT-608	Seal Oil Tank	VOC	0.20	<0.01

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source Ai	r Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
HT-735	Boiler Liquid Fuel Tank	VOC	0.15	0.38
HT-793	Diesel Fuel Tank	VOC	0.02	<0.01
<pre>Interim limits (co</pre>	ntinued)			
HT-794	Diesel Fuel Tank	VOC	0.02	<0.01
HT-797	Diesel Fuel Tank	VOC	0.03	<0.01
HT-798	Diesel Fuel Tank	VOC	0.06	<0.01
HT-799	Gasoline Tank	VOC	15.05	0.13
HT-801	Slop Oil Tank	VOC	5.41	0.02
HV-124	ATE System Seal Pot	VOC	11.49	3.90
HV-125	DEAC System Seal Pot	VOC	11.39	1.04
HV-305	Alcohol Feed Tank	VOC	0.13	<0.01
HX-411	Extruder CAS (Backup service only)	VOC PM <sub>10</sub>	7.8 1.9	1.12 1.90
PP-1	Pilot Plant	VOC PM <sub>10</sub>	0.69 0.01	0.65 0.01
WWTP-2	Aerated Lagoon	VOC	0.43	1.88
HBL-431	Product Blending System	PM <sub>10</sub> VOC (5)	1.18 38.00	2.50 71.00
HT-441	Product Storage Silos	PM <sub>10</sub> VOC (5)	0.24	0.63

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
HF-454	Fines Removal Bagh	ouse PM <sub>10</sub> VOC (5)	0.65	2.85

Emission	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
<u>Interim limits</u> (co	ntinued)			
HF-456	Fines Removal Baghous	e PM <sub>10</sub> VOC (5)	2.69	11.78
HTB-451	Product Loading Syste	m PM <sub>10</sub> VOC (5)	0.26	0.63
HQ-460	Bagging and Boxing Si	los	$PM_{10}$	0.09
	0.17	VOC (5)		
<u>Final limits</u> - The of Train 4:	following emission ra	ates become effec	tive upon s	tart-up
CB-1	Compounding Building	1 VOC PM <sub>10</sub>	6.20 0.09	27.20 0.35
CB-2	Compounding Building	2 VOC PM <sub>10</sub>	2.40 0.06	10.20 0.27
CB-3	Compounding Building	3 VOC PM <sub>10</sub>	0.50 0.06	0.09 0.19
CT-711	Cooling Tower (4)	VOC	1.05	4.60
CT-711A	Cooling Tower (4)	VOC	1.68	7.36
FLARE	Facility Flare	$VOC$ $NO_x$ $CO$ $SO_2$	63.00 19.75 142.65 0.01	26.19 11.61 59.16 0.05
FUGITIVE	Process Fugitives (4)	VOC	7.09	31.3

Emission *	Source	Air Contaminant	<u>Emiss</u>	ion Rates
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
HF-405	Bag Unloading Filter	PM <sub>10</sub>	0.20	0.05
HF-415	Additive Baghouse	$PM_{10}$	0.84	3.68
Final limits (cont	inued)			
HF-463	Railcar Unloading Ba 0.44	ghouse	PM <sub>10</sub>	0.10
HF-481	Vacuum Cleaning Bagh 1.40	ouse	PM <sub>10</sub>	6.00
BOILERS: Case 1 -	Natural gas/plant fu	uel gas		
HH-731A, HH-731B	Boilers A and B	$VOC$ $NO_x$ $CO$ $SO_2$ $PM/PM_{10}$	0.22 4.78 5.81 1.05 1.11	0.97 20.95 25.43 4.62 4.88
BOILERS: Case by-product liquid	<u>2 - Combination of wax</u>	natural gas/plam	nt fuel	gas plus
HH-731A, HH-731B	Boilers A and B	$\begin{array}{c} \text{VOC} \\ \text{NO}_x \\ \text{CO} \\ \text{SO}_2 \\ \text{PM} \\ \text{PM}_{10} \\ \text{HC1} \end{array}$	0.50 8.32 6.26 2.90 10.17 8.20 2.23	1.42 28.69 27.42 8.67 24.71 20.38 4.88
HST-101	Catalyst Preparation		VOC	61.0
Co	ondenser (Backup servi	ce only)		

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source A	ir Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)1b/hr		TPY
HT-171	Toluene Tank	VOC	0.21	0.17
HT-601	Solvent Tank	VOC	0.51	0.97
HT-602	Solvent Tank	VOC	1.19	2.56
HT-606	Solvent Tank	VOC	0.63	1.14
HT-608	Seal Oil Tank	VOC	0.20	<0.01
Final limits (cont	inued)			
HT-735	Boiler Liquid Fuel Tar	nk VOC	0.39	0.78
HT-793	Diesel Fuel Tank	VOC	0.02	<0.01
HT-794	Diesel Fuel Tank	VOC	0.02	<0.01
HT-797	Diesel Fuel Tank	VOC	0.03	<0.01
HT-798	Diesel Fuel Tank	VOC	0.06	<0.01
HT-799	Gasoline Tank	VOC	15.05	0.13
HT-801	Slop Oil Tank	VOC	5.41	0.02
HV-124	ATE System Seal Pot	VOC	11.49	4.60
HV-125	DEAC System Seal Pot	VOC	11.39	1.17
HV-305	Alcohol Feed Tank	VOC	0.13	<0.01
HX-411	Extruder CAS (Backup service only	VOC v) PM <sub>10</sub>	7.8 1.9	1.12 1.90

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)lb/hr		TPY
PP-1	Pilot Plant	VOC PM <sub>10</sub>	0.69 0.01	0.65 0.01
WWTP-2	Aerated Lagoon	VOC	0.46	2.1
HBL-431	Product Blending Syst	tem PM <sub>10</sub> VOC (5)	1.74 40.1	2.69 83.7
HT-441	Product Storage Silos	S PM <sub>10</sub> VOC (5)	0.24	0.63
Final limits (cont	inued)			
HF-454	Fines Removal Baghous	se PM <sub>10</sub> VOC (5)	0.65	2.85
HF-456	Fines Removal Baghous	se PM <sub>10</sub> VOC (5)	3.67	16.08
HTB-451	Product Loading Syste	PM <sub>10</sub> VOC (5)	0.35	0.82
HQ-460	•		$PM_{10}$	0.09
	0.17	VOC (5)		
L-735	Process Fuel Oil Load 0.9	ding (6)	VOC	32.35
	Process Fuel Oil Load 0.05	ding (7)	VOC	1.61

<sup>(1)</sup> 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) VOC volatile organic compounds as defined in General Rule 101.1

 $NO_x$  - total oxides of nitrogen

CO - carbon monoxide

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter

 $PM_{10}$  - particulate matter less than 10 microns

HCl - hydrogen chloride

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The VOC emissions for all dry pellet handling equipment including Emission Point Nos. HBL-431, HT-441, HTB-451, HF-454, HF-456, and HQ-460 are combined into HBL-431 for purposes of this table.
- (6) Allowable prior to loading controls required by September 30, 1999.
- (7) Allowable after loading controls required by September 30, 1999.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/year\_8,760

Dated
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