

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Numbers 2167 and PSDTX985

This table lists the maximum allowable emission caps and individual emission limitations for all sources of air contaminants on the applicant's property covered by this permit. The emissions 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.

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EMISSION CAPS

Air Contaminant Name (3)	Emission Rates*	
	lb/hr	TPY**
NO _x	474.14	1743.86
CO	1260.76	2445.09
SO ₂	1408.83	1874.94
PM/PM ₁₀	212.74	620.17
VOC	2718.12	2583.50
Benzene	138.54	39.74
Ammonia	17.89	70.60
Hydrogen Sulfide		20.72
	20.89	
<u>MSS SUB CAPS</u>		
NO _x	38.98	8.36
CO	35.66	5.63
SO ₂	51.74	8.14
PM	54.08	2.09
PM ₁₀	34.55	1.25
VOC	918.43	38.51
Benzene	115.03	5.70
Hydrogen Sulfide	0.82	0.04
Hydrogen Chloride	0.29	0.01

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Emission Point No. (1)	Source Name (2)	Sources Included in Emission Caps for Identified Air Contaminant (3)							
		NO _x	CO	SO ₂	PM	VOC	BZ	NH ₃	H ₂ S
117TK0071	Fixed-Roof Tank No. 117TK0071					x	x		x
117TK0073	Fixed-Roof Tank No. 117TK0073					x	x		x
117TK0137	Fixed-Roof Tank No. 117TK0137					x	x		x
117TK0138	Fixed-Roof Tank No. 117TK0138					x	x		x
117TK0139	Fixed-Roof Tank No. 117TK0139					x	x		x
117TK0140	Fixed-Roof Tank No. 117TK0140					x	x		x
117TK0759	Fixed-Roof Tank No. 117TK0759					x	x		x
117TK0760	Fixed-Roof Tank No. 117TK0760					x	x		x
117TK0762	Fixed-Roof Tank No. 117TK0762					x	x		x
117TK0763	Fixed-Roof Tank No. 117TK0763					x	x		x
117TK0764	Fixed-Roof Tank No. 117TK0764					x	x		x
117TK0778	Fixed-Roof Tank No. 117TK0778					x	x		x
117TK0779	Fixed-Roof Tank No. 117TK0779					x	x		x
117TK0780	Fixed-Roof Tank No. 117TK0780					x	x		x
117TK0781	Fixed-Roof Tank No. 117TK0781					x	x		x
117TK0782	Fixed-Roof Tank No. 117TK0782					x	x		x
117TK0783	Fixed-Roof Tank No. 117TK0783					x	x		x
130-LD-TT, 130-LD-TC	Tank Truck/Railcar Loading Losses					x	x		
130-LD-TT, 130-LD-TC	Sulfur Tank Truck Loading								x
133TK0866	Fixed Roof Tank No. 133TK0866 (Hz)					x	x		x

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133TK0876	IFR Tank No. 133TK0876					x	x		x
133TK0878	IFR Tank No. 133TK0878					x	x		x
133TK0879	IFR Tank No. 133TK0879					x	x		x
133TK0880	IFR Tank No. 133TK0880					x	x		x
133TK0881	IFR Tank No. 133TK0881					x	x		x
133TK0882	IFR Tank No. 133TK0882					x	x		x
133TK0883	IFR Tank No. 133TK0883					x	x		x
133TK0884	IFR Tank No. 133TK0884					x	x		x
133TK0885	EFR Tank No. 133TK0885					x	x		x
133TK0886	EFR Tank No. 133TK0886					x	x		x
133TK0887	EFR Tank No. 133TK0887					x	x		x
133TK0890	EFR Tank No. 133TK0890					x	x		x
133TK0894	Fixed-Roof Tank No. 133TK0894					x	x		x
133TK0896	Fixed-Roof Tank No. 133TK0896					x	x		x
133TK0897	Fixed-Roof Tank No. 133TK0897					x	x		x
133TK0898	Fixed-Roof Tank No. 133TK0898					x	x		x
134TK0011	EFR Tank No. 134TK0011					x	x		x
134TK0012	Fixed-Roof Tank No. 134TK0012					x	x		x
134TK0017	EFR Tank No. 134TK0017					x	x		x
134TK0601	Fixed-Roof Tank No. 134TK0601					x	x		x
134TK0604	Fixed-Roof Tank No. 134TK0604					x	x		x
134TK0609	Fixed-Roof Tank No. 134TK0609					x	x		x
134TK0613	IFR Tank No. 134TK0613					x	x		x
134TK0618	EFR Tank No. 134TK0618					x	x		x
134TK0619	EFR Tank No. 134TK0619					x	x		x
134TK0688	IFR Tank No. 134TK0688					x	x		x
134TK0774	EFR Tank No. 134TK0774					x	x		x
134TK0775	EFR Tank No. 134TK0775					x	x		x
134TK0776	EFR Tank No. 134TK0776					x	x		x
134TK0777	EFR Tank No. 134TK0777					x	x		x
134TK0801	Fixed-Roof Tank No. 134TK0801					x	x		x
134TK0802	EFR Tank No. 134TK0802					x	x		x
134TK0813	Fixed-Roof Tank No. 134TK0813					x	x		x

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134TK0814	Fixed-Roof Tank No. 134TK0814					x	x		x
134TK0834	IFR Tank No. 134TK0834					x	x		x
134TK0850	EFR Tank No. 134TK0850					x	x		x
134TK0867	IFR Tank No. 134TK0867					x	x		x
134TK0891	Fixed-Roof Tank No. 134TK0891					x	x		x
134TK0911	Fixed-Roof Tank No. 134TK0911					x	x		x
134TK0912	Fixed-Roof Tank No. 134TK0912					x	x		x
135TK0176	Fixed-Roof Tank No. 135TK0176					x	x		x
135TK0560	EFR Tank No. 135TK0560					x	x		x
135TK0561	EFR Tank No. 135TK0561					x	x		x
135TK0562	EFR Tank No. 135TK0562					x	x		x
135TK0563	EFR Tank No. 135TK0563					x	x		x
135TK0564	EFR Tank No. 135TK0564					x	x		x
135TK0565	EFR Tank No. 135TK0565					x	x		x
135TK0570	EFR Tank No. 135TK0570					x	x		x
135TK0571	Fixed-Roof Tank No. 135TK0571					x	x		x
135TK0572	Fixed-Roof Tank No. 135TK0572					x	x		x
135TK0573	EFR Tank No. 135TK0573					x	x		x
135TK0574	Fixed-Roof Tank No. 135TK0574					x	x		x
135TK0576	EFR Tank No. 135TK0576					x	x		x
135TK0577	EFR Tank No. 135TK0577					x	x		x
135TK0578	EFR Tank No. 135TK0578					x	x		x
135TK0579	EFR Tank No. 135TK0579					x	x		x
135TK0806	EFR Tank No. 135TK0806					x	x		x
135TK0807	EFR Tank No. 135TK0807					x	x		x
135TK0808	EFR Tank No. 135TK0808					x	x		x
135TK0809	EFR Tank No. 135TK0809					x	x		x
135TK0836	Fixed-Roof Tank No. 135TK0836					x	x		x
135TK0839	Fixed-Roof Tank No. 135TK0839					x	x		x
135TK0841	Fixed-Roof Tank No. 135TK0841					x	x		x
135TK0842	Fixed-Roof Tank No. 135TK0842					x	x		x

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135TK0843	Fixed-Roof Tank No. 135TK0843					x	x		x
136TK0030A	IFR Tank No. 136TK0030A					x	x		x
136TK0100	IFR Tank No. 136TK0100					x	x		x
136TK0441	EFR Tank No. 136TK0441					x	x		x
136TK0442	EFR Tank No. 136TK0442					x	x		x
136TK0558	EFR Tank No. 136TK0558					x	x		x
136TK0559	EFR Tank No. 136TK0559					x	x		x
136TK0582	EFR Tank No. 136TK0582					x	x		x
136TK0583	EFR Tank No. 136TK0583					x	x		x
136TK0584	EFR Tank No. 136TK0584					x	x		x
136TK0594	EFR Tank No. 136TK0594					x	x		x
136TK0597A	EFR Tank No. 136TK0597A					x	x		x
136TK0600	EFR Tank No. 136TK0600					x	x		x
136TK0674	EFR Tank No. 136TK0674					x	x		x
137TK0402	EFR Tank No. 137TK0402					x	x		x
137TK0410	Fixed-Roof Tank No. 137TK0410					x	x		x
137TK0412	IFR Tank No. 137TK0412					x	x		x
137TK0414	EFR Tank No. 137TK0414					x	x		x
137TK0416	EFR Tank No. 137TK0416					x	x		x
137TK0418	EFR Tank No. 137TK0418					x	x		x
137TK0420	EFR Tank No. 137TK0420					x	x		x
137TK0422	Fixed-Roof Tank No. 137TK0422					x	x		x
137TK0423	EFR Tank No. 137TK0423					x	x		x
137TK0424	EFR Tank No. 137TK0424					x	x		x
137TK0425	EFR Tank No. 137TK0425					x	x		x
137TK0445	Fixed-Roof Tank No. 137TK0445					x	x		x
137TK0446	Fixed-Roof Tank No. 137TK0446					x	x		x
137TK0541	Fixed-Roof Tank No. 137TK0541					x	x		x
137TK0543	Fixed-Roof Tank No. 137TK0543					x	x		x
137TK0553	Fixed-Roof Tank No. 137TK0553					x	x		x
137TK0554	EFR Tank No. 137TK0554					x	x		x
137TK0555	EFR Tank No. 137TK0555					x	x		x
137TK0580	EFR Tank No. 137TK0580					x	x		x
137TK0581	EFR Tank No. 137TK0581					x	x		x
137TK0667	IFR Tank No. 137TK0667					x	x		x

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137TK0668	IFR Tank No. 137TK0668					x	x		x
137TK0687	IFR Tank No. 137TK0687					x	x		x
137TK0691	IFR Tank No. 137TK0691					x	x		x
137TK0692	IFR Tank No. 137TK0692					x	x		x
137TK0793	EFR Tank No. 137TK0793					x	x		x
137TK0794	EFR Tank No. 137TK0794					x	x		x
137TK0797	EFR Tank No. 137TK0797					x	x		x
137TK0798	EFR Tank No. 137TK0798					x	x		x
137TK0799	EFR Tank No. 137TK0799					x	x		x
137TK0800	EFR Tank No. 137TK0800					x	x		x
137TK0803	EFR Tank No. 137TK0803					x	x		x
137TK0804	EFR Tank No. 137TK0804					x	x		x
137TK0805	EFR Tank No. 137TK0805					x	x		x
137TK0815	IFR Tank No. 137TK0815					x	x		x
137TK0816	IFR Tank No. 137TK0816					x	x		x
137TK0821	IFR Tank No. 137TK0821					x	x		x
137TK0822	IFR Tank No. 137TK0822					x	x		x
137TK0861	IFR Tank No. 137TK0861					x	x		x
137TK0865	IFR Tank No. 137TK0865					x	x		x
137TK0873	IFR Tank No. 137TK0873					x	x		x
137TK0874	IFR Tank No. 137TK0874					x	x		x
137TK0875	IFR Tank No. 137TK0875					x	x		x
137TK0920	IFR Tank No. 137TK0920					x	x		x
138TK0001	Fixed-Roof Tank No. 138TK0001					x	x		x
138TK0006	EFR Tank No. 138TK0006					x	x		x
138TK0026	EFR Tank No. 138TK0026					x	x		x
138TK0027	Fixed-Roof Tank No. 138TK0027					x	x		x
138TK0078	Fixed-Roof Tank No. 138TK0078					x	x		x
138TK0091	Fixed-Roof Tank No. 138TK0091					x	x		x
138TK0092	Fixed-Roof Tank No. 138TK0092					x	x		x
138TK0095	Fixed-Roof Tank No. 138TK0095					x	x		x
138TK0096	Fixed-Roof Tank No. 138TK0096					x	x		x
138TK0097	Fixed-Roof Tank No. 138TK0097					x	x		x
138TK0098	Fixed-Roof Tank No. 138TK0098					x	x		x

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138TK0099	Fixed-Roof Tank No. 138TK0099					x	x		x
138TK0110	Fixed-Roof Tank No. 138TK0110					x	x		x
138TK0111	Fixed-Roof Tank No. 138TK0111					x	x		x
138TK0112	Fixed-Roof Tank No. 138TK0112					x	x		x
138TK0113	Fixed-Roof Tank No. 138TK0113					x	x		x
138TK0114	Fixed-Roof Tank No. 138TK0114					x	x		x
138TK0115	Fixed-Roof Tank No. 138TK0115					x	x		x
138TK0116	Fixed-Roof Tank No. 138TK0116					x	x		x
138TK0117	Fixed-Roof Tank No. 138TK0117					x	x		x
138TK0118	Fixed-Roof Tank No. 138TK0118					x	x		x
138TK0119	Fixed-Roof Tank No. 138TK0119					x	x		x
138TK0163	Fixed-Roof Tank No. 138TK0163					x	x		x
138TK0164	Fixed-Roof Tank No. 138TK0164					x	x		x
138TK0165	Fixed-Roof Tank No. 138TK0165					x	x		x
138TK0166	Fixed-Roof Tank No. 138TK0166					x	x		x
138TK0167	Fixed-Roof Tank No. 138TK0167					x	x		x
138TK0168	Fixed-Roof Tank No. 138TK0168					x	x		x
138TK0169	Fixed-Roof Tank No. 138TK0169					x	x		x
138TK0170	Fixed-Roof Tank No. 138TK0170					x	x		x
138TK0171	Fixed-Roof Tank No. 138TK0171					x	x		x
138TK0172	Fixed-Roof Tank No. 138TK0172					x	x		x
138TK0180	Fixed-Roof Tank No.					x	x		x

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	138TK0180								
138TK0181	Fixed-Roof Tank No. 138TK0181					×	×		×
138TK0182	Fixed-Roof Tank No. 138TK0182					×	×		×
138TK0183	Fixed-Roof Tank No. 138TK0183					×	×		×
138TK0193	Fixed-Roof Tank No. 138TK0193					×	×		×
138TK0194	Fixed-Roof Tank No. 138TK0194					×	×		×
138TK0195	Fixed-Roof Tank No. 138TK0195					×	×		×
138TK0200	Fixed-Roof Tank No. 138TK0200					×	×		×
138TK0201	Fixed-Roof Tank No. 138TK0201					×	×		×
138TK0202	Fixed-Roof Tank No. 138TK0202					×	×		×
138TK0203	Fixed-Roof Tank No. 138TK0203					×	×		×
138TK0204	Fixed-Roof Tank No. 138TK0204					×	×		×
138TK0244	Fixed-Roof Tank No. 138TK0244					×	×		×
138TK0263	Fixed-Roof Tank No. 138TK0263					×	×		×
138TK0264	Fixed-Roof Tank No. 138TK0264					×	×		×
138TK0265	Fixed-Roof Tank No. 138TK0265					×	×		×
138TK0266	Fixed-Roof Tank No. 138TK0266					×	×		×
138TK0267	Fixed-Roof Tank No. 138TK0267					×	×		×
138TK0269	Fixed-Roof Tank No. 138TK0269					×	×		×
138TK0270	Fixed-Roof Tank No. 138TK0270					×	×		×
138TK0271	Fixed-Roof Tank No. 138TK0271					×	×		×
138TK0272	Fixed-Roof Tank No. 138TK0272					×	×		×

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

138TK0273	Fixed-Roof Tank No. 138TK0273					x	x		x
138TK0274	Fixed-Roof Tank No. 138TK0274					x	x		x
138TK0275	Fixed-Roof Tank No. 138TK0275					x	x		x
138TK0276	Fixed-Roof Tank No. 138TK0276					x	x		x
138TK0282	Fixed-Roof Tank No. 138TK0282					x	x		x
138TK0283	Fixed-Roof Tank No. 138TK0283					x	x		x
138TK0633	Fixed-Roof Tank No. 138TK0633					x	x		x
138TK0649	Fixed-Roof Tank No. 138TK0649					x	x		x
138TK0650	Fixed-Roof Tank No. 138TK0650					x	x		x
138TK0651	Fixed-Roof Tank No. 138TK0651					x	x		x
138TK0652	Fixed-Roof Tank No. 138TK0652					x	x		x
138TK0653	Fixed-Roof Tank No. 138TK0653					x	x		x
138TK0658	Fixed-Roof Tank No. 138TK0658					x	x		x
138TK0659	Fixed-Roof Tank No. 138TK0659					x	x		x
138TK0660	Fixed-Roof Tank No. 138TK0660					x	x		x
138TK0661	Fixed-Roof Tank No. 138TK0661					x	x		x
138TK0662	Fixed-Roof Tank No. 138TK0662					x	x		x
138TK0663	Fixed-Roof Tank No. 138TK0663					x	x		x
138TK0664	Fixed-Roof Tank No. 138TK0664					x	x		x
138TK0665	Fixed-Roof Tank No. 138TK0665					x	x		x
138TK0666	Fixed-Roof Tank No. 138TK0666					x	x		x
138TK0675	Fixed-Roof Tank No.					x	x		x

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	138TK0675								
138TK0697	Fixed-Roof Tank No. 138TK0697					x	x		x
138TK0698	Fixed-Roof Tank No. 138TK0698					x	x		x
138TK0699	Fixed-Roof Tank No. 138TK0699					x	x		x
138TK0726	Fixed-Roof Tank No. 138TK0726					x	x		x
138TK0729	Fixed-Roof Tank No. 138TK0729					x	x		x
138TK0732	Fixed-Roof Tank No. 138TK0732					x	x		x
138TK0767	Fixed-Roof Tank No. 138TK0767					x	x		x
138TK0768	Fixed-Roof Tank No. 138TK0768					x	x		x
138TK0769	Fixed-Roof Tank No. 138TK0769					x	x		x
138TK0771	Fixed-Roof Tank No. 138TK0771					x	x		x
138TK0772	Fixed-Roof Tank No. 138TK0772					x	x		x
138TK0812	Fixed-Roof Tank No. 138TK0812					x	x		x
138TK0851	Fixed-Roof Tank No. 138TK0851					x	x		x
138TK0856	Fixed-Roof Tank No. 138TK0856					x	x		x
138TK0857	Fixed-Roof Tank No. 138TK0857					x	x		x
138TK0862	Fixed-Roof Tank No. 138TK0862					x	x		x
138TK0863	Fixed-Roof Tank No. 138TK0863					x	x		x
138TK0892	EFR Tank No. 138TK0892					x	x		x
138TK0893	EFR Tank No. 138TK0893					x	x		x
138TK7601	Fixed-Roof Tank No. 138TK7601					x	x		x
139-LD-A, 139-LD-B, 139-LD-C	Marine Loading Losses					x	x		
139-LD-D	Sulfur Barge Loading								x

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139SP1700A	Marine Vapor Combustor	x	x	x	x	x	x		
233CT3701	BRU Cooling Tower					x	x		
338K0001	No. 1 Plant Flare	x	x	x		x	x	x	x
338K0002	No. 2 Plant Flare	x	x	x		x	x	x	x
338K0005	Houston Street Flare	x	x	x		x	x	x	x
338K0007	No. 3 Plant Flare	x	x	x		x	x	x	x
338K0008	No. 4 Plant Flare	x	x	x		x	x	x	x
343CT3701	ARU Cooling Tower					x	x		
430CT3701	SRU Cooling Tower (439 TGU)					x	x		
430CT3791	SRU Cooling Tower (439 Claus)					x	x		
430TK0817	IFR Tank No. 430TK0817					x	x		x
430TK0860	Fixed-Roof Tank No. 430TK0860					x	x		x
430TK0870	Fixed-Roof Tank No. 430TK0870					x	x		x
430TK0871	Fixed-Roof Tank No. 430TK0871					x	x		x
430TK0872	IFR Tank No. 430TK0872					x	x		x
430TK4001	IFR Tank No. 430TK4001					x	x		x
430TK4002	IFR Tank No. 430TK4002					x	x		x
432-SEWER	Wastewater Unit Fugitives					x	x		
432TK0005	API Separator					x	x		
432TK0008	GCWDA Lift Station					x	x		
432TK0810	EFR Tank No. 432TK0810					x	x		x
432TK0811	EFR Tank No. 432TK0811					x	x		x
432TK0818	EFR Tank No. 432TK0818					x	x		x
432TK0819	EFR Tank No. 432TK0819					x	x		x
432TK0835	EFR Tank No. 432TK0835					x	x		x
432TK0838	EFR Tank No. 432TK0838					x	x		x
432TK0854	IFR Tank No. 432TK0854					x	x		x
432TK0855	IFR Tank No. 432TK0855					x	x		x
435F1402	Tail Gas Thermal Oxidizer	x	x	x	x	x	x		x
440F2002	Tail Gas Thermal Oxidizer	x	x	x	x	x	x		x
533CT3701	533 Cooling Tower					x	x		
533F0001	533 Atmospheric Tower Heater	x	x	x	x	x	x		
533F0002	533 Vacuum Tower Heater	x	x	x	x	x	x		
534F0005	Depentanizer Tower Heater	x	x	x	x	x	x		
536CT3701	536 Cooling Tower					x	x		
536F0001A	Atmospheric Tower Heater	x	x	x	x	x	x		
536F0001B	Atmospheric Tower Heater	x	x	x	x	x	x		
536F0002	Vacuum Tower Heater	x	x	x	x	x	x	x	
537CT3701	537 Cooling Tower					x	x		
537F0001	Crude Heater No. 1	x	x	x	x	x	x	x	

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537F0002	Vacuum Heater No. 1	x	x	x	x	x	x	x	
630F0001	SR Heater	x	x	x	x	x	x		
631F0002	LCO Feed Heater	x	x	x	x	x	x		
632F0001	632 Reactor Feed Heater	x	x	x	x	x	x		
632F0002	632 LEF Reboiler	x	x	x	x	x	x		
633F0001	633 Fractionator Reboiler	x	x	x	x	x	x		
633F0002	633 Reactor Feed Heater	x	x	x	x	x	x		
634F0001	634 Reactor Feed Heater	x	x	x	x	x	x		
635CT3701	635 Cooling Tower					x	x		
635F0001	635 Reactor Feed Heater	x	x	x	x	x	x		
635TK0110	Fixed-Roof Tank No. 635TK0110					x	x		x
636F0001	636 Reactor Feed Heater	x	x	x	x	x	x		
636F0002	636 Fractionator Feed Heater	x	x	x	x	x	x		
637CT3701	637 Cooling Tower					x	x		
637F0001	637 Reactor Feed Heater	x	x	x	x	x	x		
732D0063	FCCU Regen / CO Boiler / Wet Gas Scrubber	x	x	x	x	x	x	x	
732CT3701	732 Cooling Tower					x	x		
732F0001	732 East Heater	x	x	x	x	x	x		
732F0001A	732 West Heater	x	x	x	x	x	x		
733F0005	Heater B5 - 733 LEF Reboiler	x	x	x	x	x	x		
733F0007	733 REF Fractionator Reboiler	x	x	x	x	x	x		
734F0101	Btu-Depent Heater	x	x	x	x	x	x		
734F0102	HDS Reactor Heater	x	x	x	x	x	x		
734F0107	Btu-Reformate Stabilizer Reboiler	x	x	x	x	x	x		
734F0108	Btu-Reformate Splitter Reboiler	x	x	x	x	x	x		
734F0111	Btu-Extract Stripper Reboiler	x	x	x	x	x	x		
734TK0671	Fixed-Roof Tank No. 734TK0671					x	x		x
734TK0672	IFR Tank No. 734TK0672					x	x		x
734TK0673	IFR Tank No. 734TK0673					x	x		x
735F0001A, B	735 Unifiner Heater	x	x	x	x	x	x		
735F0002A	735 No. 1 Reactor Heater(A)	x	x	x	x	x	x		
735F0003A	735 No. 2 Reactor Heater(A)	x	x	x	x	x	x		
735F0003B	735 No. 2 Reactor Heater(B)	x	x	x	x	x	x		
735F0003C	735 No. 2 Reactor Heater(C)	x	x	x	x	x	x		
735F0003D	735 No. 2 Reactor Heater(D)	x	x	x	x	x	x		
735F0004A	735 No. 3 Reactor Heater(A)	x	x	x	x	x	x		
735F0004B	735 No. 3 Reactor Heater(B)	x	x	x	x	x	x		
735F0004C	735 No. 3 Reactor Heater(C)	x	x	x	x	x	x		

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

735F0004D	735 No. 3 Reactor Heater(D)	x	x	x	x	x	x		
735F0004E	735 No. 3 Reactor Heater(E)	x	x	x	x	x	x		
735F0004F	735 No. 3 Reactor Heater(F)	x	x	x	x	x	x		
735F0005A, B	735 No. 4 Reactor Heater	x	x	x	x	x	x		
735F0006A, B	735 Unifiner Stripper Reboiler	x	x	x	x	x	x		
735F0007A, B	735 Stabilizer Heater	x	x	x	x	x	x		
735F0008A, B	735 Naphtha Feed Heater	x	x	x	x	x	x		
735F0009	Naphtha Fractionator Reboiler	x	x	x	x	x	x		
735F0010	735 Reactor Charge Heater	x	x	x	x	x	x		
736CT3701	Coker Cooling Tower (736)					x	x		
736F0101A	736 Coker East Heater H-101A	x	x	x	x	x	x	x	
736F0101B	736 Coker West Heater H-101B	x	x	x	x	x	x	x	
736K0101A	736 Coker Flare	x	x			x	x	x	x
736-LD-COK	736 Railcar Coke Loading				x				
737-COK-PIT	Coke Pit				x				
737CT3701	Coker Cooling Tower (737)					x	x		
737F0001	737 Heater F001	x	x	x	x	x	x	x	
737F0002	737 Heater F002	x	x	x	x	x	x	x	
737-LD-COK	737 Railcar Coke Loading				x				
831F0201	831 Reactor Feed Heater	x	x	x	x	x	x		
833F0001	833 1st Stage Heater	x	x	x	x	x	x		
833F0002	833 2nd Stage Heater	x	x	x	x	x	x		
833TK0654	Fixed-Roof Tank No. 833TK0654					x	x		x
833TK0655	Fixed-Roof Tank No. 833TK0655					x	x		x
833TK0656	Fixed-Roof Tank No. 833TK0656					x	x		x
833TK0657	Fixed-Roof Tank No. 833TK0657					x	x		x
930F0001	Heartcut Fractionator Heater	x	x	x	x	x	x		
930TK0784	Fixed-Roof Tank No. 930TK0784					x	x		x
930TK0786	Fixed-Roof Tank No. 930TK0786					x	x		x
930TK0787	Fixed-Roof Tank No. 930TK0787					x	x		x
930TK0788	Fixed-Roof Tank No. 930TK0788					x	x		x

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

930TK0789	Fixed-Roof Tank No. 930TK0789					x	x		x
930TK0791	EFR Tank No. 930TK0791					x	x		x
932F0001	Isom II West Reactor Feed Heater	x	x	x	x	x	x		
932F0002	Isom II Combination Splitter Heater	x	x	x	x	x	x		
932F0005	Isom II East Reactor Feed Heater	x	x	x	x	x	x		
933F0001	Orthoxylene I Heater	x	x	x	x	x	x		
933TK0689	IFR Tank No. 933TK0689					x	x		x
933TK0690	IFR Tank No. 933TK0690					x	x		x
934F0002	Orthoxylene II Heater	x	x	x	x	x	x	x	
934F0003	Isom II Xylene Rerun Tower Heater	x	x	x	x	x	x		
934TK0685	IFR Tank No. 934TK0685					x	x		x
934TK0686	IFR Tank No. 934TK0686					x	x		x
935TK0790	EFR Tank No. 935TK0790					x	x		x
935TK0792	Fixed-Roof Tank No. 935TK0792					x	x		x
939TK0693	IFR Tank No. 939TK0693					x	x		x
939TK0694	IFR Tank No. 939TK0694					x	x		x
940TK0669	IFR Tank No. 940TK0669					x	x		x
940TK0670	IFR Tank No. 940TK0670					x	x		x
940TK0795	EFR Tank No. 940TK0795					x	x		x
940TK0796	EFR Tank No. 940TK0796					x	x		x
FUGITIVES	Process Fugitives (4)					x	x	x	x
P-FL-5	No. 5 Plant Flare	x	x	x		x	x	x	x

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

SOURCES NOT INCLUDED IN EMISSION CAPS - INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
430D3702	Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.001	<0.001
736D3703	Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.001	<0.001
430-UNIT	Sulfur Plant Fugitives (4)	COS	<0.01	<0.01
430-UNIT	Sulfur Plant Fugitives (4) Unit Fugitives (4)	CS ₂	<0.01	<0.01
732D0063	FCCU Regen/CO Boiler/ Wet Gas Scrubber	Antimony	0.02	0.10
736D101AB/CD	736 Coker Drum Depressurization	H ₂ S	4.57	1.16
		VOC	4.27	1.21
		Benzene	0.98	0.15
		PM	1.98	0.55
736D101A/B/C/D	736 Coker Drum Opening	H ₂ S	0.23	0.06
		VOC	0.21	0.06
		Benzene	0.05	0.01
		PM	0.10	0.03
736-Unit-CF	736 Coker Unit Coking Fugitives	VOC	75.25	25.64
		Benzene	2.63	0.90
737D0001AV/BV /CV/DV alt.EPN 737D0001AB/CD	737 Coker Drum Depressurization	H ₂ S	4.57	1.16
		VOC	4.27	1.21
		Benzene	0.98	0.15
		PM	1.98	0.55
737D0001A/B/C/D	737 Coker Drum Opening	H ₂ S	0.23	0.06
		VOC	0.21	0.06
		Benzene	0.05	0.01
		PM	0.10	0.03

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

SOURCES NOT INCLUDED IN EMISSION CAPS - INDIVIDUAL EMISSION LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
737-Unit-CF	737 Coker Unit Coking Fugitives	VOC	75.25	25.64
		Benzene	2.63	0.90

- (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) NO_x - nitrogen oxides
CO - carbon monoxide
SO₂ - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
H₂SO₄- sulfuric acid
COS - carbon sulfide
CS₂ - carbon disulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The H₂S emissions from crude oil are an estimate only and should not be considered as a maximum allowable emission rate. However, at no time shall the emissions cause a nuisance condition.

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

8,760 Hrs/year

** Compliance with annual emission caps and annual individual emission limitations is based on a rolling 12-month period. Compliance with emission caps during calendar years in which the cap changes shall be determined accordingly.

Dated: OCTOBER 2012