HCl Prod Furnaces, Total Chlorine, June 28, 2002

Cond ID	Facility	Location	Cond Date	APCS	Condition	Comments	Total Chlorine Stack Gas Emissi				
					Description		Cond Avg		Run 1		Run
							Emiss	ND	Emiss	ND	Emiss
2005C1	Vulcan	Geismar, LA	2/1/90	WHB/QT/WS	Trial burn -- max hex feed to burner No. 1 only		3.3		4.1		3.1
2005C2	Vulcan	Geismar, LA	2/1/90	WHB/QT/WS	Trial burn -- max D-40 groundwater phase feed to burner No. 2 only		1.2		1.1		1.7
2005C3	Vulcan	Geismar, LA	2/1/90	WHB/QT/WS	Trial burn -- similar to cond 1 but at lower feedrate		4.1		1.0		5.5
2005C4	Vulcan	Geismar, LA	2/1/90	WHB/QT/WS	Trial burn -- operation with both feeds and both burners	Run 3 seems to be a clear high outlier	33.2		8.4		7.1
2017C1	Dow Chemical Company	Freeport, TX	2/1/98	WHB/Q/HClABS/VE/CLWS	Trial burn, max prod rate, min APCS, max waste feed rate		0.6		0.5		0.5
2020C1	Dow Chemical Company	Freeport, TX	2/1/99	WHB/VS/WS	Trial burn, max waste feed, max op temp and prod rate, min APCS dP		0.3	50	0.3	100	0.3
2022C1	PPG	Lake Charles, LA	5/1/01	WHB, WS (2 stage)	Trial burn, min comb temp		31.3		31.6		29.2
2022C2	PPG	Lake Charles, LA	5/1/01	WHB, WS (2 stage)	Trial burn, increased PCB feed rate		29.5		26.9		38.2
2022C3	PPG	Lake Charles, LA	5/1/01	WHB, WS (2 stage)	Normal comb temp		51.6		68.0		43.1
785C1	Borden	Geismar, LA	4/1/98	GC/HE/QC/AT/WS	CoC; Low scrubber pH	WS op parameters similar for all #785	61.2		79.7		50.7
785C2	Borden	Geismar, LA	4/1/98	GC/HE/QC/AT/WS	CoC; High scrubber pH	WS op parameters similar for all #785	140.8		144.8		139.9
785C3	Borden	Geismar, LA	4/1/98	GC/HE/QC/AT/WS	CoC; Lower scrubber recirculation rate, low scrubber pH	WS op parameters similar for all #785	67.4		39.7		70.8
786C1	Dow Chemical Company	Freeport, TX	8/1/98	DQ/HCLABS/VS/CLWS	Trial burn, max waste feed and prod rate, max comb temp, min APCS		1.6		0.7		3.1
788C1	Dow Chemical Company	Freeport, TX	11/1/97	MGCLREC/VS/SEP/DM	Trial burn, max feed rate and comb temp		5.1		2.2		11.0
842C1	Dow Chemical Company	Freeport, TX	5/1/98	WHB/HCLABS/WS	Trial burn, max prod rate, min APCS, thermal capacity, max waste feed rate		18.1		18.4		16.8
845C1	Dow Chemical Company	Freeport, TX	4/1/98	WHB/Q/HCLABS/VS/WS	Trial burn, max waste feed rate, max ash and Cr		2.7		2.6		2.9
848C1	Dow Chemical Company	Freeport, TX	6/1/98	WHB/HClABS/CWS	Trial burn, max waste feed rate and comb temp, min APCS		2.2		2.4		2.2
851C1	Dow Chemical Company	Pittsburg, CA	11/1/99	Q/HClABS/WS	Trial burn, max comb chamber temp		24.3		18.4		23.8
851C3	Dow Chemical Company	Pittsburg, CA	10/1/99	Q/HClABS/WS	Risk burn, normal operating conditions		15.1		10.9		14.4
853C12	Dupont Dow Elastomers	LaPlace, LA	9/1/97	WQ/3STGHClABS/S/CWS	Supplemental trial burn test	high pH in WS; not effective for Cl2 contro	495.7		501.7		491.7
854C1	Eastman Chemical Compa	Longview, TX	6/1/98	QT/ABS/WS	Trial burn, worst case for organics destruction		118.0		121.2		112.1
855C11	Georgia Gulf	Plaquemine, LA	4/1/95	WHB/4STGHClABS/CWS	Louisiana Air Permit Compliance Testing		15.8		19.0		13.5
Chlorine feedrate only											
2017C2	Dow Chemical Company	Freeport, TX	2/1/98	WHB/Q/HClABS/VE/CLWS	Trial burn, min comb temp, max stack gas flow rate						
2017C3	Dow Chemical Company	Freeport, TX	2/1/98	WHB/Q/HClABS/VE/CLWS	Risk burn, normal operating conditions						
2018C1	Dow Chemical Company	Freeport, TX	4/1/98	WHB/VS/Q/HCLABS/VS/CLWS	Trial burn, min comb temp, max stack gas flow rate						
2018C2	Dow Chemical Company	Freeport, TX	4/1/98	WHB/VS/Q/HCLABS/VS/CLWS	Risk burn, normal operating conditions						
2020C2	Dow Chemical Company	Freeport, TX	2/1/99	WHB/VS/WS	Trial burn, min comb temp and max comb gas flow.						
786C2	Dow Chemical Company	Freeport, TX	8/1/98	DQ/HCLABS/VS/CLWS	Trial burn; DRE, min comb temp, max comb gas flow						
786C3	Dow Chemical Company	Freeport, TX	8/1/98	DQ/HCLABS/VS/CLWS	Risk burn; normal operating conditions						
788C2	Dow Chemical Company	Freeport, TX	11/1/97	MGCLREC/VS/SEP/DM	Trial burn, DRE, min comb temp and max stack gas flow						
788C3	Dow Chemical Company	Freeport, TX	11/1/97	MGCLREC/VS/SEP/DM	Risk burn, max liq waste feed rate, normal comb temp						
842C2	Dow Chemical Company	Freeport, TX	5/1/98	WHB/HCLABS/WS	Trial burn, min comb temp, max stack gas flow rate						
842C3	Dow Chemical Company	Freeport, TX	5/1/98	WHB/HCLABS/WS	Risk burn, normal operating conditions						
844C1	Dow Chemical Company	Freeport, TX	7/1/98	WHB/HCLABS/WS	Trial burn, min comb temp and max velocity						
844C1	Dow Chemical Company	Freeport, TX	7/1/98	WHB/HCLABS/WS	Trial burn, min comb temp and max velocity						
844C2	Dow Chemical Company	Freeport, TX	7/1/98	WHB/HCLABS/WS	Risk burn, slightly above normal liq waste feed rate, normal comb temp						
845C2	Dow Chemical Company	Freeport, TX	4/1/98	WHB/Q/HCLABS/VS/WS	Trial burn, DRE min comb temp, max stack gas flow rate						
845C3	Dow Chemical Company	Freeport, TX	4/1/98	WHB/Q/HCLABS/VS/WS	Risk burn, above normal feed of liq waste, normal comb temp						
848C2	Dow Chemical Company	Freeport, TX	6/1/98	WHB/HClABS/CWS	Trial burn, DRE, min comb temp and max comb gas velocity						
848C3	Dow Chemical Company	Freeport, TX	6/1/98	WHB/HClABS/CWS	Risk burn, above normal liq waste feed rate, normal comb temp						
851C2	Dow Chemical Company	Freeport, TX	10/1/99	Q/HClABS/WS	Trial burn, min comb chamber temp						
853C10	Dupont Dow Elastomers	LaPlace, LA	4/1/97	WQ/3STGHClABS/S/CWS	Risk burn, normal operating cond						
853C11	Dupont Dow Elastomers	LaPlace, LA	4/1/97	WQ/3STGHClABS/S/CWS	Trial burn test						

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Cond ID	ns (ppmv)			TCl Feedrate (Cond Avg) (ug/dscm)				TCl Feedrate MTECs (Total) by Run (ug/dscm)				TCl SRE (%)				Comp Test	Spiking	Tier	Worst Case
	2	Run 3		HW	Other	Spike	Total	Run 1	Run 2	Run 3	Cond Avg	Run 1	Run 2	Run 3	Cond Avg	vs Normal			vs Normal
	ND	Emiss	ND																
2005C1		2.7		133,554,547			133,554,547	130,711,792	131,454,559	138,497,291	133,554,547	99.9953	99.9965	99.9971	99.9963	CT	Y	3	IB
2005C2		1.0		99,716,600			99,716,600	104,865,798	96,802,477	99,369,049	99,716,600	99.9985	99.9973	99.9986	99.9981	CT	Y	3	IB
2005C3		5.7		101,429,211			101,429,211	105,830,703	98,173,909	101,550,553	101,429,211	99.9986	99.9916	99.9916	99.9940	CT	Y	3	IB
2005C4		84.1		172,130,821			172,130,821	170,553,727	177,864,109	167,974,625	172,130,821	99.9926	99.9940	99.9249	99.9711	CT	Y	3	WC
2017C1		0.6		85,592,723	87,873,042		173,465,764	178,141,541	172,873,407	172,743,412	173,465,764	99.9996	99.9995	99.9995	99.9995	CT	Y	3	WC
2020C1	7	0.2	63	504,825		13,613,386	14,118,211	15,395,823	14,901,438	12,520,822	14,118,211	99.9974	99.9967	99.9970	99.9968	CT	Y	3	WC
2022C1		33.3		202,686,827			202,686,827								99.9768	CT	Y	3	IB
2022C2		23.5		179,725,481			179,725,481								99.9753	CT	Y	3	IB
2022C3		43.6		179,725,481			179,725,481								99.9570	CT	Y	3	WC HE
785C1		53.3		75,795,102			75,795,102	74,694,662	79,793,657	72,896,987	75,795,102	99.8400	99.9047	99.8904	99.8789	CT	Y	3	IB
785C2		137.8		75,264,276			75,264,276	83,122,848	64,040,878	78,629,101	75,264,276	99.7387	99.6724	99.7371	99.7193	CT	Y	3	WC HE
785C3		91.8		86,023,134			86,023,134	87,618,456	84,894,670	85,556,276	86,023,134	99.9321	99.8749	99.8391	99.8824	CT	Y	3	IB
786C1		1.1		160,758,539			160,758,539	158,683,822	162,335,693	162,338,839	160,758,539	99.9994	99.9972	99.9990	99.9985	CT	Y	3	WC
788C1		2.3		253,229,671		4,234,201	257,463,872	247,099,283	269,952,000	256,495,070	257,463,872	99.9986	99.9939	99.9986	99.9970	CT	Y	3	WC
842C1		19.1		114,697,421			114,697,421	110,658,273	121,417,466	112,545,626	114,697,421	99.9751	99.9792	99.9746	99.9763	CT	Y	3	WC
845C1		2.5		101,311,524	1,314,220		102,625,744	105,993,726	101,411,042	100,472,463	102,625,743	99.9963	99.9957	99.9963	99.9961	CT	Y	3	WC
848C1		1.9		97,153,172			97,153,172	97,313,809	96,443,651	96,827,111	97,153,172	99.9964	99.9965	99.9970	99.9966	CT	Y	3	WC
851C1		30.7		64,151,895		230,102,537	294,254,432	304,194,811	296,589,941	282,645,687	294,254,432	99.9909	99.9880	99.9837	99.9876	CT	Y	3	WC
851C3		19.8		45,799,841			45,799,841	45,736,424	43,248,557	48,418,604	45,799,841	99.9641	99.9502	99.9386	99.9506	RB	N		N
853C12		493.6		72,775,235			72,775,235	75,328,141	70,504,655	72,452,689	72,775,235	99.0009	98.9538	98.9781	98.9783	CT	Y	3	WC
854C1		120.7		74,784,756			74,784,756								99.7633	CT	Y	3	WC
855C11		14.9														CT	Y	3	WC
Chlorine fe																			
2017C2								22,906,321	21,323,604	21,229,653	21,709,985								
2017C3								80,734,950	80,620,423	90,130,380	83,602,818								
2018C1					1,046,764			36,918,745	44,275,900	43,485,690	40,518,503								
2018C2					718,890			62,455,717	53,507,685	55,575,852	56,050,254								
2020C2								1,018,930	1,026,517	916,353	985,045								
786C2								117,474,558	119,576,555	123,265,413	120,040,838								
786C3								163,501,796	168,947,582	168,260,594	160,541,440								
788C2								57,940,416	57,729,435	59,257,342	58,304,135								
788C3								257,117,297	260,159,963	295,301,808	270,046,921								
842C2								80,187,948	79,900,752	84,756,387	81,575,756								
842C3								107,564,887	118,450,135	109,549,017	111,676,589								
844C1								34,325,559	32,878,981	32,729,758	33,300,103								
844C1					133,741			84,847,823	71,450,538	69,187,831	75,162,064								
844C2					72,811			56,812,411	53,395,990	54,212,645	54,807,015								
845C2					850,351			57,142,234	56,099,650	56,387,909	56,540,766								
845C3					1,482,625			91,739,793	98,240,950	91,552,890	93,745,881								
848C2					1,909,016			53,677,154	54,648,006	52,003,370	53,595,626								
848C3								43,985,011	42,580,857	42,443,784	42,993,423								
851C2								156,359,800	162,253,208	160,594,425	159,877,115								
853C10								48,388,271	51,540,812	43,109,044	47,675,035								
853C11								76,944,399	68,365,154	70,663,707	71,878,911								