DATE	########				**REMARKS**
UNIT	CA-1&2				CA-1 running only
FEED RATE (tph)	135				
ACFM	346,400				
DSCFM	160,400				
REMARKS:					GC/MS testing
	PPM	PPH	PPT	% OF VOC	
THC	549.9	594.3	4.4021		
METHANE					Not available
ETHANE					Not available
VOC					Not available
BENZENE	2.13	4.01	0.0297		
1,3 BUTADIENE	0.04	0.06	0.0004		
ETHYLBENZE	0.40	1.03	0.0076		
2-BUTANONE	0.38	0.64	0.0048		
HEXANE	0.06	0.12	0.0009		
STYRENE	0.21	0.53	0.0039		
TOLUENE	0.91	2.03	0.0150		
XYLENE	1.71	4.46	0.0330		
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		12.88	0.0953		

DATE	#######				**REMARKS**
UNIT	CA-1&2				CA-1 at 81 TPH
FEED RATE (tph)	152				CA-2 at 71 TPH
ACFM					
DSCFM	141,300				
REMARKS:					GC/MS
	PPM	PPH	PPT	% OF VOC	
THC	364.2	353.5	2.3254		
METHANE					
ETHANE					
VOC					
BENZENE	1.32	2.28	0.0150		
1,3 BUTADIENE	0.10	0.12	0.0008		
ETHYLBENZE	0.09	0.22	0.0014		
2-BUTANONE	0.39	0.61	0.0040		
HEXANE	0.07	0.14	0.0009		
STYRENE	0.11	0.26	0.0017		
TOLUENE	0.62	1.26	0.0083		
XYLENE	0.80	1.88	0.0123		
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		6.77	0.0444		

DATE	########				**REMARKS**
UNIT	CA-1&2				CA-1 running only
FEED RATE (tph)	135				
ACFM	346,400				
DSCFM	160,400				
REMARKS:					GC/MS testing
	PPM	PPH	PPT	% OF VOC	
THC	549.9	594.3	4.4021		
METHANE					Not available
ETHANE					Not available
VOC					Not available
BENZENE	2.13	4.01	0.0297		
1,3 BUTADIENE	0.04	0.06	0.0004		
ETHYLBENZE	0.40	1.03	0.0076		
2-BUTANONE	0.38	0.64	0.0048		
HEXANE	0.06	0.12	0.0009		
STYRENE	0.21	0.53	0.0039		
TOLUENE	0.91	2.03	0.0150		
XYLENE	1.71	4.46	0.0330		
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		12.88	0.0953		

DATE	######				**REMARKS**
UNIT	CA-1&2				
FEED RATE (tph)	280				
ACFM					
DSCFM	151,633				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC	546.0	569.0	2.0300		
METHANE	340.3	128.9	0.4600		
ETHANE	34.4	24.4	0.0870		
VOC		415.6	1.4830		
BENZENE	6.48	11.96	0.0427	2.88	
1,3 BUTADIENE	16.28	20.81	0.0743	5.01	
ETHYLBENZE	0.81	2.03	0.0073	0.49	
2-BUTANONE	4.77	8.09	0.0290	1.96	
HEXANE	2.49	5.07	0.0181	1.22	
STYRENE	0.63	1.55	0.0056	0.38	
TOLUENE	2.91	6.31	0.0226	1.52	
XYLENE	2.87	7.19	0.0257	1.73	
1,1,1-TRICHLOROETHANE	0.00	0.00	0.0000	0.00	
ACRYLONITRILE	1.16	1.45	0.0052	0.35	
METHYLENE CHLORIDE	0.00	0.00	0.0000	0.00	Used special column
TRICHLOROETHENE	3.37	10.50	0.0375	2.53	
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		74.96	0.2680		

DATE	######				**REMARKS**
UNIT	CA-1&2				
FEED RATE (tph)	280				
ACFM	401,100				
DSCFM	150,700				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC					
METHANE					
ETHANE					
VOC					
BENZENE					
1,3 BUTADIENE					
ETHYLBENZE					
2-BUTANONE					
HEXANE					
STYRENE					
TOLUENE					
XYLENE					
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE	0.31	0.22	0.0008		
ACETALDEHYDE	0.33	0.34	0.0012		
PROPIONALDEHYDE	0.08	0.11	0.0004		
ACROLEIN	0.51	0.67	0.0024		
ACETONE	0.24	0.32	0.0012		
2-BUTANONE	0.11	0.18	0.0006		
TOTAL		1.85	0.0066		

DATE	######				**REMARKS**
UNIT	CA-3				
FEED RATE (tph)	120				
ACFM	170,567				
DSCFM	67,040				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC					
METHANE					
ETHANE					
VOC					
BENZENE					
1,3 BUTADIENE					
ETHYLBENZE					
2-BUTANONE					
HEXANE					
STYRENE					
TOLUENE					
XYLENE					
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE	0.11	0.04	0.0003		
ACETALDEHYDE	0.18	0.08	0.0007		
PROPIONALDEHYDE	0.04	0.03	0.0002		
ACROLEIN	0.28	0.16	0.0014		
ACETONE	0.12	0.08	0.0006		
2-BUTANONE	0.04	0.03	0.0003		
TOTAL		0.41	0.0035		

DATE	7/25/1996				**REMARKS**
UNIT	CA-3				
FEED RATE (tph)	155				
ACFM					
DSCFM	74,593				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC	773.3	393.0	2.5340		
METHANE	395.1	73.4	0.4730		
ETHANE	53.8	18.7	0.1210		
VOC		300.9	1.9400		
BENZENE	6.91	6.16	0.0397		
1,3 BUTADIENE	19.06	11.65	0.0751		
ETHYLBENZE	0.18	0.21	0.0014		2 runs BDL
2-BUTANONE	1.05	0.87	0.0056		
HEXANE	2.33	2.27	0.0147		
STYRENE	0.37	0.43	0.0028		1 run BDL
TOLUENE	1.55	1.62	0.0105		
XYLENE	2.22	2.69	0.0174		
1,1,1-TRICHLOROETHANE	1.26	1.98	0.0128		2 runs BDL
ACRYLONITRILE	0.78	0.45	0.0029		2 runs BDL
METHYLENE CHLORIDE	0.00	0.00	0.0000		Special column
TRICHLOROETHENE	0.94	1.39	0.0089		
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		29.72	0.1918		

DATE	#######				**REMARKS**
UNIT	CA-1&2				
FEED RATE (tph)	300				
ACFM					
DSCFM	164,467				
REMARKS:					
	PPH	PPH	PPT	% OF VOC	
THC	549.7	621.2	2.0710		
METHANE	1089.7	447.7	1.4920		
ETHANE	0.0	0.0	0.0000		
VOC		173.5	0.5780		
BENZENE	3.60	7.21	0.0240		
1,3 BUTADIENE	0.00	0.00	0.0000		
ETHYLBENZE	0.08	0.20	0.0007		1 run BDL
2-BUTANONE	0.00	0.00	0.0000		
HEXANE	2.13	4.71	0.0157		
STYRENE	1.05	2.82	0.0094		
TOLUENE	1.27	3.00	0.0100		
XYLENE	0.61	1.68	0.0056		
1,1,1-TRICHLOROETHANE	0.96	3.28	0.0109		1 run BDL
ACRYLONITRILE	0.00	0.00	0.0000		
METHYLENE CHLORIDE	0.17	0.37	0.0012		2 runs BDL
TRICHLOROETHENE	0.15	0.49	0.0016		2 runs BDL
FROMALDEHYDE	0.28	0.22	0.0007		
ACETALDEHYDE	0.02	0.03	0.0001		
PROPIONALDEHYDE	0.01	0.01	0.0000		2 runs BDL
ACROLEIN	0.24	0.35	0.0012		
ACETONE	0.00	0.00	0.0000		
2-BUTANONE	0.00	0.00	0.0000		
TOTAL		24.37	0.0811		

DATE	#######				**REMARKS**
UNIT	CA-3				
FEED RATE (tph)	145				
ACFM	144,767				
DSCFM	50,710				
REMARKS:					
	PPH	PPH	PPT	% OF VOC	
THC	298.4	103.8	0.7160		
METHANE	224.2	28.4	0.1960		
ETHANE	0.0	0.0	0.0000		
VOC		75.4	0.5200		
BENZENE	7.88	4.85	0.0335		
1,3 BUTADIENE	0.00	0.00	0.0000		
ETHYLBENZE	0.17	0.14	0.0010		
2-BUTANONE	0.00	0.00	0.0000		
HEXANE	3.19	2.17	0.0150		
STYRENE	2.06	1.69	0.0117		
TOLUENE	2.67	1.94	0.0134		
XYLENE	1.32	1.11	0.0076		
1,1,1-TRICHLOROETHANE	2.15	2.26	0.0156		
ACRYLONITRILE	0.00	0.00	0.0000		
METHYLENE CHLORIDE	0.77	0.52	0.0036		1 run BDL
TRICHLOROETHENE	0.38	0.40	0.0027		
FROMALDEHYDE	0.05	0.01	0.0001		
ACETALDEHYDE	0.18	0.06	0.0004		1 run BDL
PROPIONALDEHYDE	0.05	0.02	0.0001		1 run BDL
ACROLEIN	0.42	0.19	0.0013		
ACETONE	0.00	0.00	0.0000		
2-BUTANONE	0.00	0.00	0.0000		
TOTAL		15.36	0.1060		

DATE	########				**REMARKS**
UNIT	CA- 1&2				
FEED RATE (tph)	300				
ACFM					
DSCFM	154,533				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC	367.7	390.2	1.3010		
METHANE	485.2	187.3	0.6240		
ETHANE					
VOC		202.9	0.6760		
BENZENE	2.09	3.93	0.0130	1.92	Wrong standards on most
1,3 BUTADIENE					compounds
ETHYLBENZE					
2-BUTANONE					
HEXANE	0.99	2.05	0.0070	1.04	
STYRENE					
TOLUENE					
XYLENE					
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		5.98	0.0200		

DATE	########				**REMARKS**
UNIT	CA-1&2				
FEED RATE (tph)	280				
ACFM					
DSCFM	145,500				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC	370.0	369.8	1.3210		
METHANE	664.8	241.7	0.8630		
ETHANE					
VOC		128.1	0.4580		
BENZENE	1.24	2.19	0.0080	1.75	Wrong standards on most
1,3 BUTADIENE					compounds
ETHYLBENZE					
2-BUTANONE					
HEXANE	0.70	1.38	0.0050	1.09	
STYRENE					
TOLUENE					
XYLENE					
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
CO	1164.10	784.90	2.6160		
TOTAL HAPS		3.57	0.0130		

DATE	########				**REMARKS**
UNIT	CA-3				
FEED RATE (tph)	140				
ACFM					
DSCFM	57,227				
REMARKS:					
	PPM	PPH	PPT	% OF VOC	
THC	171.3	67.3	0.4800		
METHANE	148.4	21.2	0.1510		
ETHANE					
VOC		46.1	0.3290		
BENZENE	3.07	2.13	0.0150	4.56	Wrong standards on most
1,3 BUTADIENE					compounds
ETHYLBENZE					
2-BUTANONE					
HEXANE	2.01	1.54	0.0110	3.34	
STYRENE					
TOLUENE					
XYLENE					
1,1,1-TRICHLOROETHANE					
ACRYLONITRILE					
METHYLENE CHLORIDE					
TRICHLOROETHENE					
FROMALDEHYDE					
ACETALDEHYDE					
PROPIONALDEHYDE					
ACROLEIN					
ACETONE					
2-BUTANONE					
TOTAL		3.67	0.0260		

	Average	Average	Average	
UNIT	**CA-1&2**	**CA-3**	**BOTH**	
	233	140	186	
ACFM	364,633	157667	261,150	
DSCFM	153,617	62393	108,005	
REMARKS:				
	PPT	**PPT**	**PPT**	
THC	2.5504	1.2433	1.8969	
METHANE	0.8598	0.2733	0.5665	
ETHANE	0.0435	0.0605	0.0520	
VOC	0.7988	0.9297	0.8642	
BENZENE	0.0232	0.0294	0.0263	
1,3 BUTADIENE	0.0152	0.0376	0.0264	
ETHYLBENZE	0.0049	0.0012	0.0031	
2-BUTANONE	0.0085	0.0028	0.0057	
HEXANE	0.0069	0.0136	0.0102	
STYRENE	0.0049	0.0073	0.0061	
TOLUENE	0.0142	0.0120	0.0131	
XYLENE	0.0219	0.0125	0.0172	
1,1,1-TRICHLOROETHANE	0.0055	0.0142	0.0098	
ACRYLONITRILE	0.0026	0.0015	0.0020	
METHYLENE CHLORIDE	0.0006	0.0018	0.0012	
TRICHLOROETHENE	0.0196	0.0058	0.0127	
FROMALDEHYDE	0.0008	0.0002	0.0005	
ACETALDEHYDE	0.0007	0.0006	0.0006	
PROPIONALDEHYDE	0.0002	0.0002	0.0002	
ACROLEIN	0.0018	0.0014	0.0016	
ACETONE	0.0006	0.0003	0.0005	
2-BUTANONE	0.0003	0.0002	0.0002	
TOTAL	0.0780	0.0818	0.0799	

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	Average	Average	Average	STD DEV	STD DEV	STD DEV	AVE + 3 X STD DEV	
UNIT	**CA-1&2**	**CA-3**	**BOTH**	**CA-1&2**	**CA-3**	**BOTH**	**CA-1&2**	**CA-3**
	229.4	145.025	187.2125	79.06832	17.81392	72.26645		
ACFM	373750	164311.3	269030.7	38678.74	17287.32	116973.5		
DSCFM	153700	66250.75	109975.4	9053.325	10844.5	47003.75		
REMARKS:								
	PPT	**PPT**	**PPT**	**PPT**	**PPT**	**PPT**	**PPT**	**PPT**
THC	2.707125	1.9022	2.304663	1.137513	1.028008	1.088279	6.119664	4.986224
METHANE	0.976	0.3345	0.65525	0.729734	0.195869	0.572247	3.165203	0.922106
ETHANE	0.0435	0.0605	0.052	0.061518	0.08556	0.061628	0.228055	0.31718
VOC	1.0305	1.23	1.13025	0.639932	1.004092	0.697021	2.950295	4.242275
BENZENE	0.02785	0.033233	0.030542	0.011603	0.006604	0.009494	0.062659	0.053045
1,3 BUTAD	0.018875	0.0253	0.022088	0.036951	0.04313	0.036257	0.129729	0.15469
ETHYLBEN	0.00425	0.0024	0.003325	0.003708	0.002088	0.003051	0.015374	0.008664
2-BUTANO	0.00945	0.0037	0.006575	0.013201	0.003205	0.01	0.049054	0.013314
HEXANE	0.0089	0.010167	0.009533	0.009289	0.008113	0.008096	0.036768	0.034506
STYRENE	0.00515	0.005967	0.005558	0.003252	0.004974	0.003705	0.014907	0.020889
TOLUENE	0.013975	0.0123	0.013138	0.006415	0.001572	0.004712	0.033219	0.017015
XYLENE	0.01915	0.0159	0.017525	0.012453	0.007661	0.010006	0.05651	0.038883
1,1,1-TRIC	0.00545	0.0142	0.009825	0.007707	0.00198	0.006829	0.028572	0.02014
ACRYLON	0.0026	0.00145	0.002025	0.003677	0.002051	0.00252	0.013631	0.007602
METHYLE	0.0006	0.0018	0.0012	0.000849	0.002546	0.001697	0.003146	0.009437
TRICHLOF	0.01955	0.0058	0.012675	0.025385	0.004384	0.016859	0.095705	0.018952
FROMALD	0.00075	0.0002	0.000475	7.07E-05	0.000141	0.00033	0.000962	0.000624
ACETALDE	0.00065	0.00055	0.0006	0.000778	0.000212	0.000469	0.002983	0.001186
PROPION/	0.0002	0.00015	0.000175	0.000283	7.07E-05	0.000171	0.001049	0.000362
ACROLEIN	0.0018	0.00135	0.001575	0.000849	7.07E-05	0.000556	0.004346	0.001562
ACETONE	0.0006	0.0003	0.00045	0.000849	0.000424	0.000574	0.003146	0.001573
2-BUTANO	0.0003	0.00015	0.000225	0.000424	0.000212	0.000287	0.001573	0.000786
TOTAL	0.09908	0.0947	0.09689	0.100516	0.077823	0.085605	0.400628	0.32817

		CA-1&2	CA-1&2	CA-4	CA-3	CA-3	
BOTH	UNIT	Total	Increase		Total	Increase	UNIT
		400 TPH	75 TPH	275 TPH	200 TPH	38 TPH	
	ACFM						ACFM
	DSCFM						DSCFM
	REMARKS:						REMARKS
PPT		Using average emissions					
5.569498	THC						THC
2.37199	METHANE						METHANE
0.236884	ETHANE	PPH	PPH	PPH	PPH	PPH	ETHANE
3.221312	VOC	412.2	77.2875	310.8188	246	46.74	VOC
0.059023	BENZENE	11.14	2.08875	8.398958	6.646667	1.262867	BENZENE
0.130858	1,3 BUTADIENE	7.55	1.415625	6.074063	5.06	0.9614	1,3 BUTAD
0.012477	ETHYLBENZE	1.7	0.31875	0.914375	0.48	0.0912	ETHYLBEN
0.036576	2-BUTANONE	3.78	0.70875	1.808125	0.74	0.1406	2-BUTANO
0.033822	HEXANE	3.56	0.6675	2.621667	2.033333	0.386333	HEXANE
0.016673	STYRENE	2.06	0.38625	1.528542	1.193333	0.226733	STYRENE
0.027272	TOLUENE	5.59	1.048125	3.612813	2.46	0.4674	TOLUENE
0.047543	XYLENE	7.66	1.43625	4.819375	3.18	0.6042	XYLENE
0.030311	1,1,1-TRICHLOROETH	2.18	0.40875	2.701875	2.84	0.5396	1,1,1-TRIC
0.009584	ACRYLONITRILE	1.04	0.195	0.556875	0.29	0.0551	ACRYLON
0.006291	METHYLENE CHLOR	0.24	0.045	0.33	0.36	0.0684	METHYLE
0.063252	TRICHLOROETHENE	7.82	1.46625	3.485625	1.16	0.2204	TRICHLOR
0.001466	FROMALDEHYDE	0.3	0.05625	0.130625	0.04	0.0076	FROMALD
0.002007	ACETALDEHYDE	0.26	0.04875	0.165	0.11	0.0209	ACETALDE
0.000687	PROPIONALDEHYDE	0.08	0.015	0.048125	0.03	0.0057	PROPIONA
0.003243	ACROLEIN	0.72	0.135	0.433125	0.27	0.0513	ACROLEIN
0.002173	ACETONE	0.24	0.045	0.12375	0.06	0.0114	ACETONE
0.001087	2-BUTANONE	0.12	0.0225	0.061875	0.03	0.0057	2-BUTANO
0.353706	TOTAL HAPs pph	56.04	10.5075	37.81479	26.98333	5.126833	TOTAL HA
	VOC TPY	1805.436	338.5193	1361.386	1077.48	204.7212	VOC TPY
	HAPs TPY	245.4552	46.02285	165.6288	118.187	22.45553	HAPs TPY
	HAP-CHLOR PPH	45.8	8.5875	31.29729	22.62333	4.298433	HAP-CHLO
	HAP-CHLOR TPY	200.604	37.61325	137.0821	99.0902	18.82714	HAP-CHLO

	CA-1&2	CA-1&2	CA-4	CA-3	CA-3			CA-1&2
	Total	Increase		Total	Increase	UNIT		Total
	400 TPH	75 TPH	275 TPH	200 TPH	38 TPH			400 TPH
						ACFM		
						DSCFM		
:						REMARKS:		USING CE
	Using ave + 3*Std dev							Using ave
						THC		
						METHANE		
	PPH	PPH	PPH	PPH	PPH	ETHANE		PPH
	1180.118	221.2721	811.3311	848.455	161.2064	VOC		187.52
	25.06362	4.699429	17.23124	10.60909	2.015727	BENZENE		
IENE	51.89173	9.7297	35.67557	30.93795	5.878211	1,3 BUTADIENE		
NZE	6.149719	1.153072	4.227932	1.732837	0.329239	ETHYLBENZE		
NE	19.62167	3.679062	13.4899	2.66281	0.505934	2-BUTANONE		
	14.7073	2.75762	10.11127	6.901228	1.311233	HEXANE		
	5.962615	1.11799	4.099297	4.177894	0.7938	STYRENE		
	13.28771	2.491446	9.135303	3.402974	0.646565	TOLUENE		
	22.6039	4.23823	15.54018	7.776564	1.477547	XYLENE		
HLOROETH	11.42896	2.142929	7.857408	4.027939	0.765308	1,1,1-TRICHLOROETHANE		
TRILE	5.452346	1.022315	3.748488	1.520366	0.28887	ACRYLONITRILE		
NE CHLOR	1.258234	0.235919	0.865036	1.887351	0.358597	METHYLENE CHLORIDE		
ROETHENE	38.28216	7.177905	26.31899	3.790437	0.720183	TRICHLOROETHENE		
EHYDE	0.384853	0.07216	0.264586	0.124853	0.023722	FROMALDEHYDE		
EHYDE	1.193381	0.223759	0.820449	0.237279	0.045083	ACETALDEHYDE		
ALDEHYDE	0.419411	0.07864	0.288345	0.072426	0.013761	PROPIONALDEHYDE		
	1.738234	0.325919	1.195036	0.312426	0.059361	ACROLEIN		
	1.258234	0.235919	0.865036	0.314558	0.059766	ACETONE		
NE	0.629117	0.117959	0.432518	0.157279	0.029883	2-BUTANONE		
Ps	221.3332	41.49997	152.1666	80.64626	15.32279	TOTAL HAPs		
	5168.917	969.1719	3553.63	3716.233	706.0842	VOC TPY		821.3376
	969.4394	181.7699	666.4896	353.2306	67.11382	HAPs TPY		
R PPH	170.3638	31.94322	117.1251	70.94054	13.4787	HAP-CHLOR PPH		
R TPY	746.1936	139.9113	513.0081	310.7196	59.03672	HAP-CHLOR TPY		

CA-1&2	CA-4	CA-3	CA-3			CA-1&2	CA-1&2	CA-4
Increase		Total	Increase	UNIT		Total	Increase	
75 TPH	275 TPH	200 TPH	38 TPH			400 TPH	75 TPH	275 TPH
				ACFM				
				DSCFM				
M DATA				REMARKS:		USING CEM DATA		
						Using ave + 3*Std dev		
				THC				
				METHANE				
PPH	PPH	PPH	PPH	ETHANE		PPH	PPH	PPH
35.16	165.4125	93.76	17.8144	VOC		426.68	80.0025	365.9975
				BENZENE				
				1,3 BUTADIENE				
				ETHYLBENZE				
				2-BUTANONE				
				HEXANE				
				STYRENE				
				TOLUENE				
				XYLENE				
				1,1,1-TRICHLOROETHANE				
				ACRYLONITRILE				
				METHYLENE CHLORIDE				
				TRICHLOROETHENE				
				FROMALDEHYDE				
				ACETALDEHYDE				
				PROPIONALDEHYDE				
				ACROLEIN				
				ACETONE				
				2-BUTANONE				
				TOTAL HAPs				
154.0008	724.5068	410.6688	78.02707	VOC TPY		1868.858	350.411	1603.069
				HAPs TPY				
				HAP-CHLOR PPH				
				HAP-CHLOR TPY				

CA-3	CA-3	
Total	Increase	UNIT
162 TPH	38 TPH	
		ACFM
		DSCFM
		REMARKS
		THC
		METHANE
PPH	PPH	ETHANE
172.8054	40.5346	VOC
		BENZENE
		1,3 BUTAD
		ETHYLBEN
		2-BUTANO
		HEXANE
		STYRENE
		TOLUENE
		XYLENE
		1,1,1-TRIC
		ACRYLON
		METHYLEI
		TRICHLOR
		FROMALD
		ACETALDE
		PROPIONA
		ACROLEIN
		ACETONE
		2-BUTANO
		TOTAL HA
756.8877	177.5415	VOC TPY
		HAPs TPY
		HAP-CHLO
		HAP-CHLO

UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	200 TPH	38 TPH
Remarks		Using average emissions from stack tests				
		PPH	PPH	PPH	PPH	PPH
VOC		412	77	311	246	47
BENZENE		11.14	2.09	8.40	6.65	1.26
1,3 BUTADIENE		7.55	1.42	6.07	5.06	0.96
ETHYLBENZE		1.70	0.32	0.91	0.48	0.09
2-BUTANONE		3.78	0.71	1.81	0.74	0.14
HEXANE		3.56	0.67	2.62	2.03	0.39
STYRENE		2.06	0.39	1.53	1.19	0.23
TOLUENE		5.59	1.05	3.61	2.46	0.47
XYLENE		7.66	1.44	4.82	3.18	0.60
1,1,1-TRICHLOROETHANE		2.18	0.41	2.70	2.84	0.54
ACRYLONITRILE		1.04	0.20	0.56	0.29	0.06
METHYLENE CHLORIDE		0.24	0.05	0.33	0.36	0.07
TRICHLOROETHENE		7.82	1.47	3.49	1.16	0.22
FROMALDEHYDE		0.30	0.06	0.13	0.04	0.01
ACETALDEHYDE		0.26	0.05	0.17	0.11	0.02
PROPIONALDEHYDE		0.08	0.02	0.05	0.03	0.01
ACROLEIN		0.72	0.14	0.43	0.27	0.05
ACETONE		0.24	0.05	0.12	0.06	0.01
2-BUTANONE		0.12	0.02	0.06	0.03	0.01
Acetophenone		0.0160	0.0030	0.0110	0.0080	0.0015
Biphenyl		0.0228	0.0043	0.0157	0.0114	0.0022
bis(2-Ethylhexl)phthalate		0.0015	0.0003	0.0011	0.0008	0.0001
2-Chloroacetonphenone		0.0014	0.0003	0.0010	0.0007	0.0001
3/4=Methylphenol		0.0093	0.0018	0.0064	0.0047	0.0009
Cumene		0.0018	0.0003	0.0012	0.0009	0.0002
Dibenzofuran		0.0191	0.0036	0.0131	0.0095	0.0018
Di-n-Butylphthalate		0.0115	0.0022	0.0079	0.0058	0.0011
N,N-Dimethylaniline		0.0076	0.0014	0.0052	0.0038	0.0007
Naphthalene		0.1477	0.0277	0.1016	0.0739	0.0140
Phenol		0.0907	0.0170	0.0623	0.0453	0.0086

UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	200 TPH	38 TPH
Remarks		Using ave + 3*Std dev (from stack tests)				
		PPH	PPH	PPH	PPH	PPH
VOC		1180	221	811	848	161
BENZENE		25.06	4.70	17.23	10.61	2.02
1,3 BUTADIENE		51.89	9.73	35.68	30.94	5.88
ETHYLBENZE		6.15	1.15	4.23	1.73	0.33
2-BUTANONE		19.62	3.68	13.49	2.66	0.51
HEXANE		14.71	2.76	10.11	6.90	1.31
STYRENE		5.96	1.12	4.10	4.18	0.79
TOLUENE		13.29	2.49	9.14	3.40	0.65
XYLENE		22.60	4.24	15.54	7.78	1.48
1,1,1-TRICHLOROETHANE		11.43	2.14	7.86	4.03	0.77
ACRYLONITRILE		5.45	1.02	3.75	1.52	0.29
METHYLENE CHLORIDE		1.26	0.24	0.87	1.89	0.36
TRICHLOROETHENE		38.28	7.18	26.32	3.79	0.72
FROMALDEHYDE		0.38	0.07	0.26	0.12	0.02
ACETALDEHYDE		1.19	0.22	0.82	0.24	0.05
PROPIONALDEHYDE		0.42	0.08	0.29	0.07	0.01
ACROLEIN		1.74	0.33	1.20	0.31	0.06
ACETONE		1.26	0.24	0.87	0.31	0.06
2-BUTANONE		0.63	0.12	0.43	0.16	0.03

UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	200 TPH	38 TPH
Remarks		USING CEM DATA AVE ONLY				
		PPH	PPH	PPH	PPH	PPH
VOC PPH		187.52	35.16	165.41	93.76	17.81
		TPY	TPY	TPY	TPY	TPY
VOC TPY		821.34	154.00	724.51	410.67	78.03
VOC TPY						
HAPs TPY						
HAP-CHLOR PPH						
HAP-CHLOR TPY						

UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	162 TPH	38 TPH
Remarks		USING CEM DATA W/ AVE + 3STDDEV				
		PPH	PPH	PPH	PPH	PPH
VOC PPH		426.68	80.00	366.00	172.81	40.53
		TPY	TPY	TPY	TPY	TPY
VOC TPY		1868.86	350.41	1603.07	756.89	177.54