USS Clairton Works
Total Annual Benzene (TAB) - 1997
MTCE-RELIEF/CONTROL VALVES LISTING

Waste Stream ID#	Mtce - Valves Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
	#1 CONTROL ROOM								
1CR163	LICV2725 DEP Rich Tank Level	N	Y	A	4.5	8.16 - 14	9.9	1.7E-07	Y
1CR164	FRCV2726 DEP Rich Tank Level	N	Y	A	1	8.16 - 14	9.9	3.7E-08	Y
1CR165	LICV3011 Top Recirc. H2O Level	N	Y	A	50	93 - 221	144.1	2.7E-05	Y
1CR166	LRACV3014 Phosam Solution Level	N	Y	A	13	8.16 - 14	9.9	4.8E-07	Y
1CR167	LICV3016 DEP Level	N	Y	A	3	8.16 - 14	9.9	1.1E-07	Y
1CR168	LICV3021 Top Recirc. H2O Level	N	Y	A	50	93 - 221	144.1	2.7E-05	Y
1CR169	LRCAV3024 Phosam Solution Level	N	Y	A	13	8.16 - 14	9.9	4.8E-07	Y
1CR170	LICV3031 Top Recirc. H2O Level	N	Y	A	50	93 - 221	144.1	2.7E-05	Y
1CR171	LICAV3056 Phosam Rich Solution Flow	N	Y	A	2	8.16 - 14	9.9	7.4E-08	Y
1CR172	LICV3063 Phosam StripP Bottom Level	N	Y	A	4.5	0.23 - 5.0	1.8	3.0E-08	Y
1CR173	LICV3073 Phosam Strip Bottom Level	N	Y	A	4.5	0.23 - 5.0	1.8	3.0E-08	Y
1CR174	LICV3103 Vapor Cont. Level	N	Y	A	2	8.16 - 14	9.9	7.4E-08	Y
1CR175	LICV3113 Vapor Cont Level	N	Y	A	2	8.16 - 14	9.9	7.4E-08	Y
1CR176	LICV3124 Fract. Feed Tank Level	N	Y	A	2	0.005 - 0.027	0.02	1.5E-10	Y
1CR177	LICV3134 Fract. Feed Tank Level	N	Y	A	1	0.005 - 0.027	0.02	7.5E-11	Y
1CR178	LICV3174 Phosam Flash Tank Level	N	Y	A	15	0.23 - 5.0	1.8	1.0E-07	Y
1CR179	PICV3244 Fract. Feed Tank Pressure	N	Y	A	4.5	0.005 - 0.027	0.02	3.4E-10	Y
1CR180	PICV3254 Fract. Feed Tank Pressure	N	Y	A	4.5	0.005 - 0.027	0.02	3.4E-10	Y
1CR181	TICV3302 E330 Lean Solution Cooler	N	Y	A	18	0.23 - 5.0	1.8	1.2E-07	Y
1CR182	TICV3312 E331 Lean Solution Cooler	N	Y	A	18	0.23 - 5.0	1.8	1.2E-07	Y
1CR183	LICV3505 NH3 Fract. Bottoms Level	N	Y	A	13	0 - 0.53	0.2	9.8E-09	Y
1CR184	PICV3523 NH3 Fract. Top Pressure	N	Y	A	1	0 - 0.53	0.2	7.5E-10	Y
1CR185	PICV3535 NH3 Fract. Bottoms	N	Y	A	2	0 - 0.53	0.2	1.5E-09	Y
1CR186	FRCV3558 NH3 Product Flow	N	Y	A	1	0.005 - 0.027	0.02	7.5E-11	Y
1CR187	HIC CV Make-up H2O	N	Y	A	1	0.005 - 0.027	0.02	7.5E-11	Y
1CR188	HIC H360 Lean Solution Bypass	N	Y	A	7	0.23 - 5.0	1.8	4.7E-08	Y
1CR189	FICV2700 Superstill CV -Process Water Flow	N	Y	A	2	93 - 221	144.1	1.1E-06	Y
1CR190	LICV2705 Superstill CV - Bottoms Level	N	Y	A	4.5	0.03 - 0.081	0.06	1.0E-09	Y
1CR191	LIC2709 Superstill CV - Phosam Level	N	Y	A	2	8.16 - 14	9.9	7.4E-08	Y
1CR192	LIC2710 Superstill CV - Phosam Level	N	Y	A	2	8.16 - 14	9.9	7.4E-08	Y
1CR193	LICAV2015 Section Level - T201 Valve	N	Y	A	25	93 - 221	144.1	1.4E-05	Y
1CR194	LICAV2025 Section Level - T202 Valve	N	Y	A	25	93 - 221	144.1	1.4E-05	Y
1CR195	LICAV2035 Section Level - T203 Valve	N	Y	A	25	93 - 221	144.1	1.4E-05	Y
1CR196	LICV2044 West Final Cooler Sump Level Control Valve	N	Y	A	1.5	93 - 221	144.1	8.1E-07	Y
1CR197	LICV2058 Final Cooler Sump Level Control Valve	N	Y	A	1.5	93 - 221	144.1	8.1E-07	Y
1CR198	FIRCV2128 Cold Proc Water - Mid. Sprays - T201 Valve	N	Y	A	24	93 - 221	144.1	1.3E-05	Y
1CR199	CV2136 Tar Water Section Level - T210 Valve	N	Y	A	24	93 - 221	144.1	1.3E-05	Y

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USS Clairton Works
Total Annual Benzene (TAB) - 1997
MTCE-RELIEF/CONTROL VALVES LISTING

Waste Stream ID#	Mtce - Valves Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
1CR200	FIRCV2149 Top Spray Water Make-up - T202 Valve	N	Y	A	1	93 - 221	144.1	5.4E-07	Y
1CR201	FIRCV2238 Cold Proc. Water - Middle Sprays - T202	N	Y	A	24	93 - 221	144.1	1.3E-05	Y
1CR202	FIRCV 2279 Top Sprays Water Make-up - T202 Valve	N	Y	A	1	93 - 221	144.1	5.4E-07	Y
1CR203	LICAV 2356 Tar Water Section Level - T203 Valve	N	Y	A	24	93 - 221	144.1	1.3E-05	Y
1CR204	FIRCV2369 Top Spray Water Make-up- T203 Valve	N	Y	A	1	93 - 221	144.1	5.4E-07	Y
1CR205	CV2635 Valve Knockout Pot for T206	N	Y	A	24	93 - 221	144.1	1.3E-05	Y
1CR206	HIC2666 Top Recirculating Water Bleed-off T206	N	Y	A	1	93 - 221	144.1	5.4E-07	Y
1CR207	LICAV2667 Tar Water Section Levelof T206 Valve	N	Y	A	8	93 - 221	144.1	4.3E-06	Y
1CR208	CV2668 Cold Process Water to Middle Sprays T206	N	Y	A	32	93 - 221	144.1	1.7E-05	Y
1CR209	HIC2669 Top Recirculating Water Makeup for T206	N	Y	A	2	93 - 221	144.1	1.1E-06	Y
1CR255	E324 Pressure Relief 1X2	N	Y	A	0	93 - 221	144.1	0.0E+00	Y
1CR256	E325 Pressure Relief 1X1	N	Y	A	0	93 - 221	144.1	0.0E+00	Y
1CR257	E360 Pressure Relief 3/4X1	N	Y	E	0	0.23 - 5.0	1.8	0.0E+00	Y
1CR258	E360 Pressure Relief 3/4X1	N	Y	E	0	0.23 - 5.0	1.8	0.0E+00	Y
	#2 CONTROL ROOM								
2CR74	LCV5730 Level Control on Injection H20 Makeup Line	N	Y	A	15	235 - 343	284	1.6E-05	Y
2CR75	LICV5753 Level Control in Injection H2o Line - D575	N	Y	A	10	235 - 343	284	1.1E-05	Y
2CR76	LICAV5764 Level Control on Injection H2O Line - D576	N	Y	A	10	235 - 343	284	1.1E-05	Y
2CR77	CV6005 Control Valve on Bottom Line of D600	N	Y	A	10	235 - 343	284	1.1E-05	Y
2CR78	CV6023 Control Valve on Bottom Line of D602	N	Y	A	7	235 - 343	284	7.5E-06	Y
2CR79	CV6243 Control Valve on Bottom Line of D624	N	Y	A	7	235 - 343	284	7.5E-06	Y
2CR80	CV6048 Level Control for Cont. H2O Level in V604&5	N	Y	A	15	235 - 343	284	1.6E-05	Y
2CR81	CV6041 L.O. Level Control for V604 and V605	N	Y	A	5	89 - 2000	983	1.8E-05	Y
2CR98	E424 Relief Valve 3252-R Vessel E-424	N	Y	A	0	235 - 343	284	0	Y
	#5 CONTROL ROOM								
5CR81	LCV-6513 Lean Sol. to T-651	N	Y	E	0	0.003 - 0.003	0.003	0	Y
5CR82	FCV-6515 Rich to T651 Stripper	N	Y	E	0	9.32 - 11.13	10.2	0	Y
5CR83	LC-321 304-F Drain Valve	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR84	LCV-6571 Acid gas K/O Pot	N	Y	E	5.2	7.4 - 9.8	8.3	1.6E-07	Y
5CR86	FCV-110 Rich Carb. Flow	N	Y	E	14.2	9.32 - 11.13	10.2	5.4E-07	Y
5CR87	FCV-101 Lean Carb.	N	Y	E	20.4	0.003 - 0.003	0.003	2.3E-10	Y
5CR88	FIC-103 D/C to 102-F	N	Y	E	0	7.4 - 9.8	8.3	0	Y
5CR89	LIC-104 102-F Level	N	Y	E	0	7.4 - 9.8	8.3	0	Y
5CR90	LCV-6500 T-650 ABS Make Up	N	Y	E	0	7.4 - 9.8	8.3	0	Y
5CR91	LCV-6516 T-651 Blowdown	N	Y	E	0	7.4 - 9.8	8.3	0	Y
5CR92	FRCA-307 301-F Blowdown	N	Y	E	0	0.028 - 0.16	0.1	0	Y
5CR93	LCV-305 303-E Reflux Flow 319	N	Y	E	0	0.028 - 0.16	0.1	0	Y
5CR94	LRCA-301 302-E Level Control	N	Y	E	0	0.028 - 0.16	0.1	0	Y

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USS Clairton Works
Total Annual Benzene (TAB) - 1997
MTCE-RELIEF/CONTROL VALVES LISTING

Waste Stream ID#	Mtce - Valves Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
5CR95	FRCA-305 303-E Lean Flow	N	Y	E	0	<0.005	<0.005	0	Y
5CR96	FRCA-304 302-E Quench Flow	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR97	LRCA-300 301-E Level	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR98	E302C1S Valve Relief 1"x2"	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR99	E302C2S Valve Relief 1'x2'	N	Y	E	0	0.04 - 0.13	0.1	0	Y
5CR100	E303C1S Valve Relief 1"x2"	N	Y	E	0	0.065 - 0.069	0.068	0	Y
5CR101	E303C2S Valve Relief 1"x2"	N	Y	E	0	<0.005	<0.005	0	Y
5CR103	E-654A Relief Valve 3/4"x1"	N	Y	E	0	9.32 - 11.13	10.2	0	Y
5CR104	E-654B Relief Valve 3/4"x1"	N	Y	E	0	9.32 - 11.13	10.2	0	Y
	#1 BY-PRODUCTS								
1B/P-52	CV-2000 Cont. Valve To ST.1-2-3	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1B/P-53	LCV Surge - Tank Level	N	Y	A	0	2.37 - 6.41	4.7	0	Y
	#2 BY-PRODUCTS								
2B/P-33	LCV-TSP-1 Sump Level Cont.	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-34	LCV-ST-1&2 Surge Tanks	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2B/P-35	LCV-RTR Tar Receiver Level	N	N	A	0	2.37 - 6.41	4.7	0	Y
	CWTP #2 TANK FARM								
TKF-35	LICV-101 WW-1&2 level valve	N	Y	A	0	8.6 - 61	34.8	0	Y
TKF-36	FCV-102 Valve from WW-3	N	Y	A	0	8.6 - 61	34.8	0	Y
TKF-37	TRCV-42 Temp.E-1 Outlet	N	Y	A	0	8.6 - 61	34.8	0	Y
TKF-38	FCV-41 Still Feed Flow Valve	N	Y	A	0	8.6 - 61	34.8	0	Y
TKF-20	PSV-35 Relief Valve E1 Heater	N	Y	A	0	8.6 - 61	34.8	0	Y
	#1 PRIMARY COOLER								
1/PC64	LCV-801 Level Control 801-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C65	LCV-802 Level Control 802-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C66	LCV-803 Level Control 803-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C67	LTV-801 Liq.Trim Valve 801-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C68	LTV-802 Liq.Trim Valve 802-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C69	LTV-803 Liq.Trim Valve 803-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C70	FCV-801-1 Tar to 801-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C71	FCV-802-1 Tar to 802-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
1P/C72	FCV-803-1Tar to 803-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
	#2 PRIMARY COOLER								
2P/C-51	Lcv-804 Level Control 804-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-52	Lcv-805 Level Control 805-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-84	Lcv-806 Level Control 806-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-57	LTV-804 Liq. Trim Valve 804-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-58	LTV-805 Liq.Trim Valve 805-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y

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USS Clairton Works
Total Annual Benzene (TAB) - 1997
MTCE-RELIEF/CONTROL VALVES LISTING

Waste Stream ID#	Mtce - Valves Waste Stream Description	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (Gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
2P/C-87	LTV-806 Liq.Trim Valve 806-T1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-43	FCV-804-1 Tar to 804-T-1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-44	FCV-805-1 Tar to 805-T-1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
2P/C-80	FCV-806-1 Tar to 806-T-1	N	Y	A	0	2.37 - 6.41	4.7	0	Y
						Subtotal Mtce - Valves:		**3.1E-04**	

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