LEAK DETECTION AND REPAIR OF EQUIPMENT IN BENZENE SERVICE FOR THE PERIOD JANUARY 1993 THROUGH JUNE 1993

USS CLAIRTON WORKS
CLAIRTON, PENNSYLVANIA

APPENDIX C

REVISED INDICES OF DRAWINGS AND NEW AND REVISED DRAWINGS

CHESTER
ENVIRONMENTAL

USX CLAIRTON COKE WORKS BENZENE NESHAPS DRAWING LIST

FIG	FIG DATE	USX ID	DESCRIPTION	CR	OPEN END VAL	OTHER VAL	CONT VAL	TOTAL VAL	PUMPS	GAUGES	RELIEFS	VENTS	VACCUM	INACCES	LO WASH
01	05-Sep-90	C-100	MAIN AXI COMPRESSOR	1	7	3	3	13	0	0	1	1	9	4	
02	25-Sep-90	C-105	MAIN AXI COMPRESSOR	1	6	4	3	13	0	0	1	1	6	4	
03	28-Sep-90	C-110	MAIN AXI COMPRESSOR	1	6	4	3	13	0	0	1	1	10	4	
04	28-Sep-90	C-115	MAIN AXI COMPRESSOR	1	6	4	3	13	0	0	1	1	7	4	
05	28-Sep-90	C-120	MAIN AXI COMPRESSOR	1	7	4	3	14	0	0	1	1	6	4	
06	12-Oct-90	C-125	MAIN AXI COMPRESSOR	1	7	4	3	14	0	0	1	1	9	5	
07	12-Oct-90	C-130	MAIN AXI COMPRESSOR	1	7	4	3	14	0	0	1	1	8	4	
08	26-Sep-90	C-135	MAIN AXI COMPRESSOR	1	5	5	3	13	0	0	1	1	5	4	
09	12-Oct-90	C-140	MAIN AXI COMPRESSOR	1	7	4	3	14	0	0	1	1	9	5	
10	12-Oct-90	C-145	MAIN AXI COMPRESSOR	1	7	4	3	14	0	0	1	1	8	5	
11	12-Oct-90	C-150	MAIN AXI COMPRESSOR	1	10	5	3	18	0	0	1	1	8	4	
12	12-Oct-90	C-155	MAIN AXI COMPRESSOR	1	7	5	3	15	0	0	1	1	6	4	
13	12-Oct-90	C-160	MAIN AXI COMPRESSOR	1	6	4	3	13	0	0	1	1	8	4	
14	12-Oct-90	C-165	MAIN AXI COMPRESSOR	1	7	4	3	14	0	0	1	1	8	4	
15	12-Oct-90	C-170	MAIN AXI COMPRESSOR	1	5	4	3	12	0	0	1	1	10	4	
16	12-Oct-90	C-175	MAIN AXI COMPRESSOR	1	6	4	3	13	0	0	1	1	9	4	
17	12-Oct-90	C-180	MAIN AXI COMPRESSOR	1	5	4	3	12	0	0	1	1	10	4	
18	12-Oct-90	C-185	MAIN AXI COMPRESSOR	1	8	4	3	15	0	0	1	1	10	4	
19	01-Oct-93	D-201/2/3	LO DECANTERS FINAL COOLER	1	19	48	1	68	3	8	3	0	9		
20	05-Dec-91	T-206/1/2/3	FINAL COOLERS	1	24	36	1	61	0	1	0	0	0	5	
21	06-Dec-91	T-207	SUPER STILL	1	25	32	3	60	4	2	3	0	15	10	
22	05-Dec-91	SS SPIRALS	SUPER STILL SPIRALS	1	27	27	0	54	0	0	0	0	0	12	
23	09-Dec-91	C-500	MAIN VACUUM MACHINE	2	15	16	4	35	0	8	1	4	16	2	
24	05-Dec-91	C-503	MAIN VACUUM MACHINE	2	15	16	4	35	0	8	1	4	12	5	
25	06-Dec-91	C-506	MAIN VACUUM MACHINE	2	13	14	4	31	0	8	1	4	13	3	
26	05-Dec-91	C-509	MAIN VACUUM MACHINE	2	16	17	4	37	0	9	1	4	14	3	
27	05-Dec-91	C-512	MAIN VACUUM MACHINE	2	15	13	4	32	0	8	1	4	12	3	
28	05-Dec-91	C-515	MAIN VACUUM MACHINE	2	14	13	4	31	0	9	1	4	15	4	
29	06-Dec-91	C-518	MAIN VACUUM MACHINE	2	20	19	4	43	0	9	1	4	12	4	
30	05-Dec-91	C-521	MAIN VACUUM MACHINE	2	17	16	4	37	0	10	1	4	13	3	
31	05-Dec-91	C-524	MAIN VACUUM MACHINE	2	16	19	4	39	0	8	1	4	14	7	
32	08-Oct-90	C-527	MAIN VACUUM MACHINE	2	19	7	4	30	0	5	1	4	15	2	
33	05-Dec-91	C-530	MAIN VACUUM MACHINE	2	13	19	4	36	0	10	1	4	16	5	
34	04-Dec-91	C-533	MAIN VACUUM MACHINE	2	16	15	4	35	0	8	1	4	15	5	

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USX CLAIRTON COKE WORKS BENZENE NESHAPS DRAWING LIST

FIG	FIG DATE	USX ID	DESCRIPTION	CR	OPEN END VAL	OTHER VAL	CONT VAL	TOTAL VAL	PUMPS	GAUGES	RELIEFS	VENTS	VACCUM	INACCES	LO WASH
35	06-Dec-91	C-536	MAIN VACUUM MACHINE	2	11	16	4	31	0	8	1	4	9	4	
36	07-Dec-91	C-539	MAIN VACUUM MACHINE	2	20	16	4	40	0	8	1	4	12	6	
37	04-Dec-91	C-542	MAIN VACUUM MACHINE	2	12	17	4	33	0	9	1	4	13	3	
38	04-Dec-91	C-545	MAIN VACUUM MACHINE	2	13	18	4	35	0	9	1	4	15	3	
39	05-Dec-91	D-548	MAIN VACUUM MACHINE	2	16	15	4	35	0	8	1	4	12	2	
40	01-Oct-93	QUAD 1	MAIN QUAD	2	10	27	28	65	0	12	4	0	5	10	16
41	01-Oct-93	QUAD 2	MAIN QUAD	2	10	27	28	65	0	12	4	0	5	11	16
42	01-Oct-93	QUAD 3	MAIN QUAD	2	10	25	28	63	0	12	4	0	5	10	16
43	01-Oct-93	QUAD 4	MAIN QUAD	2	10	26	28	64	0	12	4	0	5	11	16
44	10-Jan-93	QUAD 5	MAIN QUAD	2	10	27	28	65	0	12	4	0	5	10	16
45	01-Oct-93	QUAD 6	MAIN QUAD	2	12	27	28	67	0	12	4	0	5	11	16
46	01-Oct-93	QUAD 7	MAIN QUAD	2	13	22	28	63	0	8	4	0	5	10	16
47	01-Oct-93	D-573	SUB GAS INJ WATER SEP	2	10	19	1	30	0	3	2	0	0	7	0
48	04-Dec-91	E-629/30/332/33	SUB GAS WATER COOLERS	2	26	8	0	34	0	0	4	0	0	7	
49	01-Oct-93	D-575	SUB GAS WATER SEPERATOR	8	8	15	1	24	0	2	2	0	0	5	0
50	01-Oct-93	E-634/5/7/8	SUB GAS AMMONIA COOLERS	2	6	6	0	12	0	0	0	0	0	0	0
51	01-Oct-93	D-576	SUB GAS AMMONIA COOL SEP	2	12	31	1	44	0	3	2	0	0	9	0
52	01-Oct-93		DUAL AXI HEADRES	2	1	16	0	17	0	0	0	0	6	17	0
53	28-Aug-90	R-582	LIGHT OIL REGENERATOR	2	9	25	3	37	0	1	1	0	8	4	19
54	12-Oct-90	R-584	LIGHT OIL REGENERATOR	2	15	27	3	45	0	2	1	0	8	2	25
55	30-Aug-90	R-586	LIGHT OIL REGENERATOR	2	13	23	3	39	0	1	1	0	9	2	20
56	28-Sep-90	R-590	LIGHT OIL REGENERATOR	2	12	19	3	34	0	2	1	0	11	2	16
57	10-Jan-93	R582/4/6/90	LIGHT OIL REGENERATORS	2	3	9	2	14	0	0	0	0	4	0	
58	01-Oct-93	D-600	SUB SUB GAS INJ WATER SEP	2	6	14	1	21	0	2	2	0	0	4	0
59	01-Oct-93	E-639/640	SUB SUB GAS WATER COOLERS	2	14	10	0	24	0	2	0	0	0	0	0
60	01-Oct-93	D-602	SUB SUB GAS WATER SEP	2	11	19	1	30	0	2	2	0	0	4	0
61	01-Oct-93	E-641/2	SUB SUB GAS AMMONIA COOLR	2	3	4	0	7	0	0	0	0	0	1	0
62	01-Oct-93	D-624	SUB SUB GAS AMMONIA SEP	2	15	42	2	59	0	4	2	0	0	4	0
63	01-Oct-93	D-604/5	LIGHT OIL DECANTERS	2	16	37	0	53	0	3	2	0	0	0	0
64	05-Dec-91	P-619A/B/623	TRANSFER PUMPS	2	13	35	0	48	3	1	0	0	0		
65	14-May-91	TRANSFER LINE	TRANSFER LINE TO ARISTECH	2	7	24	0	31	0	4	1	0	0	27	8
66	08-Aug-90	E-424	HEAT EXCHANGER LO WASH	2	5	6	0	11	0	1	0	0	0		12
67	28-Aug-90	B-426	LO WASH BLOWDOWN TANK	2	13	38	0	51	0	3	2	0	0		56
68	11-Oct-90	P-426	LO WASH BLOWDOWN PUMPS	2	4	16	0	20	2	2	0	0	0		24

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USX CLAIRTON COKE WORKS BENZENE NESHAPS DRAWING LIST

FIG	FIG DATE	USX ID	DESCRIPTION	CR	OPEN END VAL	OTHER VAL	CONT VAL	TOTAL VAL	PUMPS	GAUGES	RELIEFS	VENTS	VACCUM	INACCES	LO WASH
69	01-Oct-93	QUAD 1	MAIN QUAD BOTTOM WASH	2	7	16	0	23	0	0	0	0	0	0	23
70	01-Oct-93	QUAD 2	MAIN QUAD BOTTOM WASH	2	7	19	0	26	0	1	0	0	0	0	26
71	01-Oct-93	QUAD 3	MAIN QUAD BOTTOM WASH	2	9	16	0	25	0	0	0	0	0	0	25
72	01-Oct-93	QUAD 4	MAIN QUAD BOTTOM WASH	2	8	15	0	23	0	0	0	0	0	0	23
73	01-Oct-93	QUAD 5	MAIN QUAD BOTTOM WASH	2	9	17	0	26	0	0	0	0	0	0	26
74	01-Oct-93	QUAD 6	MAIN QUAD BOTTOM WASH	2	7	16	0	23	0	0	0	0	0	0	23
75	01-Oct-93	QUAD 7	MAIN QUAD BOTTOM WASH	2	8	15	0	23	0	0	0	0	0	0	23
76	03-Oct-90	QUADS 1&2	MAIN QUADS TOP WASH	2	25	29	0	54	0	2	0	0	0		56
77	33149	QUADS 3 & 4	MAIN QUADS TOP WASH	2	26	29	0	55	0	2	0	0	0		57
78	33150	QUADS 5 & 6	MAIN QUADS TOP WASH	2	27	27	0	54	0	2	0	0	0		56
79	33148	QUAD 7	MAIN QUAD TOP WASH	2	4	20	0	24	0	5	0	0	0		29
80	01-Oct-93		S CONTAMINATED WATER TANK		3	10		13	0	0	4	0	0	0	0
81	01-Oct-93		CENTER CONTAM WATER TANK		3	9	0	12	0	0	4	0	0	0	0
82	01-Oct-93		N CONTAMONATED WATER TANK		3	10	0	13	0	0	4	0	0	0	0
83	01-Oct-93		CONTAMINATED WATER VENT		10	22	0	32	0	2	0	2	0	0	0
84	01-Oct-93	R690	SUB GAS BY-PASS TO CARB	2	0	18	1	19	0	5	0	0	0	0	0
85	01-Oct-93	D604/605	LO DECANTER VENTS	2	8	17	4	29	0	7	0	0	0	0	0
TOTALS					935	1412	349	2696	12	297	106	88	479	334	659
TOTAL COMPONENTS								3199							

TOTAL NON VACCUM SERV	2720
TOTAL ACCESSABLE NON VACCUM	2386
TOTAL IN REGULAR MONITORING	1727

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