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Table 4-1 Container Storage Areas Summary

Container Storage Area	Maximum Waste Volume (US Gallons) ¹	Approximate Dimensions (L × W × H, in feet) ²
HLW Vitrification Plant		
IHLW Canister Storage Cave (H-0132)	162,589	63 × 23 × 15
HLW East Corridor El. 0' (HC-0108/09/10)	310,291	122 × 34 × 10
HLW Loading Area (H-0130)	159,185	56 × 38 × 10
Analytical Laboratory		
Laboratory Waste Management Area (A-0139 and A-0139A/B/C/D)	119,613	49 × 39 × 10
Other Areas		
Non-Radioactive Dangerous Waste Container Storage Area (located on the Part A form, Fig 2A-3, Bldg 32)	56,104	25 × 30 × 10
Failed Melter Storage Facility (located on the Part A form, Fig 2A-3, West of Bldg 11)	403,947	75 × 45 × 16

¹ The conversion factor used to convert from cubic feet to gallons is 7.4805 gal/ft³

² The dimension for height (H) is based on the height of the largest waste container stored in the area (i.e., LAW container is 7.5 ft, HLW canister is 15 ft, melters are assumed to be 16 ft, and a B-25 box is 5 ft - stacked a maximum of two high is 10 ft).

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Table 4-2 Pretreatment Plant Tank Systems

No.	System	Vessel Number	Description	Material of Construction	Total Volume (US Gallons)	Approximate Dimensions (Diameter × Height or Length in feet)
1	FRP	FRP-VSL-00002A	Waste Feed Receipt Vessel	Stainless Steel	474,000	RESERVED
2	FRP	FRP-VSL-00002B	Waste Feed Receipt Vessel	Stainless Steel	474,000	RESERVED
3	FRP	FRP-VSL-00002C	Waste Feed Receipt Vessel	Stainless Steel	474,000	RESERVED
4	FRP	FRP-VSL-00002D	Waste Feed Receipt Vessel	Stainless Steel	474,000	RESERVED
5	FEP	FEP-VSL-00017A	Waste Feed Evaporator Feed Vessel	Stainless Steel	85,496	RESERVED
6	FEP	FEP-VSL-00017B	Waste Feed Evaporator Feed Vessel	Stainless Steel	85,496	RESERVED
7	FEP	FEP-VSL-00005	LAW Feed Evaporator Condensate Vessel	Stainless Steel	5,022	RESERVED
8	UFP	UFP-VSL-00062A	Ultrafilter Permeate Vessel	Stainless Steel	34,700	RESERVED
9	UFP	UFP-VSL-00062B	Ultrafilter Permeate Vessel	Stainless Steel	34,700	RESERVED
10	UFP	UFP-VSL-00062C	Ultrafilter Permeate Vessel	Stainless Steel	34,700	RESERVED
11	UFP	UFP-VSL-00001A	Ultrafiltration Feed Preparation Vessel	Stainless Steel	75,593	RESERVED
12	UFP	UFP-VSL-00001B	Ultrafiltration Feed Preparation Vessel	Stainless Steel	75,593	RESERVED
13	UFP	UFP-VSL-00002A	Ultrafiltration Feed Vessel	Stainless Steel	40,783	RESERVED
14	UFP	UFP-VSL-00002B	Ultrafiltration Feed Vessel	Stainless Steel	40,783	RESERVED
15	UFP	UFP-FILT-00001A	Ultrafilter	Stainless Steel	140	RESERVED
16	UFP	UFP-FILT-00001B	Ultrafilter	Stainless Steel	140	RESERVED
17	UFP	UFP-FILT-00002A	Ultrafilter	Stainless Steel	140	RESERVED
18	UFP	UFP-FILT-00002B	Ultrafilter	Stainless Steel	140	RESERVED
19	UFP	UFP-FILT-00003A	Ultrafilter	Stainless Steel	140	RESERVED
20	UFP	UFP-FILT-00003B	Ultrafilter	Stainless Steel	140	RESERVED
21	HLP	HLP-VSL-00028	HLW Feed Blending Vessel	Stainless Steel	142,200	RESERVED
22	HLP	HLP-VSL-00027A	HLW Lag Storage Vessel	Stainless Steel	127,260	RESERVED
23	HLP	HLP-VSL-00027B	HLW Lag Storage Vessel	Stainless Steel	127,260	RESERVED
24	HLP	HLP-VSL-00022	HLW Feed Receipt Vessel	Stainless Steel	270,600	RESERVED
25	CXP	CXP-IXC-00001	Cesium Ion Exchange Column	Stainless Steel	680	RESERVED
26	CXP	CXP-IXC-00002	Cesium Ion Exchange Column	Stainless Steel	680	RESERVED
27	CXP	CXP-IXC-00003	Cesium Ion Exchange Column	Stainless Steel	680	RESERVED
28	CXP	CXP-IXC-00004	Cesium Ion Exchange Column	Stainless Steel	680	RESERVED
29	CXP	CXP-VSL-00001	Cesium Ion Exchange Feed Vessel	Stainless Steel	103,350	RESERVED

Table 4-2 Pretreatment Plant Tank Systems

No.	System	Vessel Number	Description	Material of Construction	Total Volume (US Gallons)	Approximate Dimensions (Diameter × Height or Length in feet)
30	CXP	CXP-VSL-00004	Cesium Ion Exchange Caustic Rinse Collection Vessel	Stainless Steel	11,085	RESERVED
31	CXP	CXP-VSL-00005	Cesium Reagent Vessel	Stainless Steel	1,141	RESERVED
32	CXP	CXP-VSL-00026A	Cesium Ion Exchange Treated LAW Collection Vessel	Stainless Steel	39,000	RESERVED
33	CXP	CXP-VSL-00026B	Cesium Ion Exchange Treated LAW Collection Vessel	Stainless Steel	39,000	RESERVED
34	CXP	CXP-VSL-00026C	Cesium Ion Exchange Treated LAW Collection Vessel	Stainless Steel	39,000	RESERVED
35	CNP	CNP-VSL-00003	Eluate Contingency Storage Vessel	Stainless Steel	21,570	RESERVED
36	CNP	CNP-VSL-00004	Cesium Evaporator Recovered Nitric Acid Vessel	Stainless Steel	11,115	RESERVED
37	CNP	CNP-VSL-00001	Cesium Evaporator Eluant Lute Pot	Stainless Steel	109	RESERVED
38	TLP	TLP-VSL-00002	Treated LAW Evaporator Condensate Vessel	Stainless Steel	2,300	RESERVED
39	TLP	TLP-VSL-00009A	LAW SBS Condensate Receipt Vessel	Stainless Steel	130,010	RESERVED
40	TLP	TLP-VSL-00009B	LAW SBS Condensate Receipt Vessel	Stainless Steel	130,010	RESERVED
41	TCP	TCP-VSL-00001	Treated LAW Concentrate Storage Vessel	Stainless Steel	146,740	RESERVED
42	RDP	RDP-VSL-00002A	Spent Resin Slurry Vessel	Stainless Steel	15,230	RESERVED
43	RDP	RDP-VSL-00002B	Spent Resin Slurry Vessel	Stainless Steel	15,230	RESERVED
44	RDP	RDP-VSL-00002C	Spent Resin Slurry Vessel	Stainless Steel	15,230	RESERVED
45	RDP	RDP-VSL-00004	Spent Resin Dewatering Moisture Separation Vessel	Stainless Steel	101	RESERVED
46	RLD	RLD-TK-00006A	Process Condensate Tank	Stainless Steel	394,000	RESERVED
47	RLD	RLD-TK-00006B	Process Condensate Tank	Stainless Steel	394,000	RESERVED
48	RLD	RLD-VSL-00017A	Alkaline Effluent Vessel	Stainless Steel	34,340	RESERVED
49	RLD	RLD-VSL-00017B	Alkaline Effluent Vessel	Stainless Steel	34,340	RESERVED
50	PWD	PWD-VSL-00033	Ultimate Overflow Vessel	Stainless Steel	41,650	RESERVED
51	PWD	PWD-VSL-00043	HLW Effluent Transfer Vessel	Stainless Steel	41,650	RESERVED
52	PWD	PWD-VSL-00015	Acid/Alkaline Effluent Vessel	Stainless Steel	119,150	RESERVED

Table 4-2 Pretreatment Plant Tank Systems

No.	System	Vessel Number	Description	Material of Construction	Total Volume (US Gallons)	Approximate Dimensions (Diameter × Height or Length in feet)
53	PWD	PWD-VSL-00044	Plant Wash Vessel	Stainless Steel	103,024	RESERVED
54	PWD	PWD-VSL-00046	C3 Floor Drain Collection Vessel	Stainless Steel	4,982	RESERVED
55	PWD	PWD-VSL-00016	Acid/Alkaline Effluent Vessel	Stainless Steel	119,150	RESERVED
56	PJV	PJV-VSL-00002	PJV Drain Collection Vessel	Stainless Steel	8,975	RESERVED
57	PVP	PVP-VSL-00001	Vessel Ventilation HEME Drain Collection Vessel	Stainless Steel	1,969	RESERVED
58	PIH	PIH-TK-00001	Decontamination Soak Tank	Stainless Steel	TBD	TBD

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Table 4-3 LAW Vitrification Plant Tank Systems

No.	System	Vessel Number	Description	Material	Total Volume (US Gallons)	Approximate Dimensions (Diameter × Height or Length in feet)
1	LCP	LCP-VSL-00001	LAW Melter 1 Concentrate Receipt Vessel	Stainless Steel	18,130	RESERVED
2	LCP	LCP-VSL-00002	LAW Melter 2 Concentrate Receipt Vessel	Stainless Steel	18,130	RESERVED
3	LFP	LFP-VSL-00001	Melter 1 Feed Preparation Vessel	Stainless Steel	9,123	RESERVED
4	LFP	LFP-VSL-00002	Melter 1 Feed Vessel	Stainless Steel	9,123	RESERVED
5	LFP	LFP-VSL-00003	Melter 2 Feed Preparation Vessel	Stainless Steel	9,123	RESERVED
6	LFP	LFP-VSL-00004	Melter 2 Feed Vessel	Stainless Steel	9,123	RESERVED
7	LVP	LVP-TK-00001	LAW Caustic Collection Tank	Stainless Steel	14,232	RESERVED
8	LOP	LOP-VSL-00001	LAW Melter 1 SBS Condensate Vessel	Hastelloy	9,056	RESERVED
9	LOP	LOP-VSL-00002	LAW Melter 2 SBS Condensate Vessel	Hastelloy	9,056	RESERVED
10	RLD	RLD-VSL-00003	Plant Wash Vessel	Stainless Steel	25,780	RESERVED
11	RLD	RLD-VSL-00004	C3/C5 Drains/Sump Collection Vessel	Stainless Steel	7,696	RESERVED
12	RLD	RLD-VSL-00005	SBS Condensate Collection Vessel	Stainless Steel	25,780	RESERVED

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Table 4-4 HLW Vitrification Plant Tank Systems

No.	System	Vessel Number	Description	Material	Total Volume (US Gallons)	Approximate Dimensions (Diameter × Height in Length in feet)
1	HOP	HOP-VSL-00903	Melter 1 SBS Condensate Receiver Vessel	Hastelloy	9,891	RESERVED
2	HOP	HOP-VSL-00904	Melter 2 SBS Condensate Receiver Vessel	Hastelloy	9,891	RESERVED
3	HDH	HDH-VSL-00001	Rinse Tunnel Canister Rinse Vessel	Stainless Steel	3,314	RESERVED
4	HDH	HDH-VSL-00003	Waste Neutralization Vessel	Stainless Steel	5,315	RESERVED
5	HDH	HDH-VSL-00002	Canister Decon Vessel 1	Titanium	630	RESERVED
6	HDH	HDH-VSL-00004	Canister Decon Vessel 2	Titanium	630	RESERVED
7	RLD	RLD-VSL-00007	Acidic Waste Vessel	Stainless Steel	18,145	RESERVED
8	RLD	RLD-VSL-00008	Plant Wash and Drains Vessel	Stainless Steel	13,774	RESERVED
9	RLD	RLD-VSL-00002	Off-gas Drains Collection Vessel	Stainless Steel	366	RESERVED
10	HFP	HFP-VSL-00001	HLW Melter 1 Feed Preparation Vessel	Stainless Steel	8,370	RESERVED
11	HFP	HFP-VSL-00002	HLW Melter 1 Feed Vessel	Stainless Steel	8,370	RESERVED
12	HFP	HFP-VSL-00005	HLW Melter 2 Feed Preparation Vessel	Stainless Steel	8,370	RESERVED
13	HFP	HFP-VSL-00006	HLW Melter 2 Feed Vessel	Stainless Steel	8,370	RESERVED
14	HSH	HSH-TK-00001	Decontamination Tank Melter Cave 1	Stainless Steel	3,718	RESERVED
15	HSH	HSH-TK-00002	Decontamination Tank Melter Cave 2	Stainless Steel	3,718	RESERVED

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3**Table 4-5 Analytical Laboratory Tank Systems**

No.	System	Vessel Number	Description	Material	Total Volume (US Gallons)	Approximate Dimensions (Diameter × Height or Length in feet)
1	RLD	RLD-VSL-00164	Laboratory Area Sink Drain Collection Vessel	6% Mo	3,180	RESERVED
2	RLD	RLD-VSL-00165	Hot Cell Drain Collection Vessel	6% Mo	9,100	RESERVED

Table 4-6 Secondary Containment in Cells and Caves in the WTP

Cell/Cave	Approximate Cell Dimensions (L×W, in feet)	Miscellaneous Treatment Systems, Subsystems, or Tanks in Cell/Cave (Largest Plant Item in Bold Type)	Volume of Largest Plant Item in Cell/Cave (US Gallons)	Minimum Secondary Containment Height (feet)
Pretreatment Plant				
P-B005 C2/C3 Drain Tank Room	Minimum secondary containment for these cells/caves has been deleted and superceded by Flooding Volume for Below Grade and 0 Ft Level in PT Facility, 24590-PTF-PER-M-02-005 (DWP Attachment 51, Appendix 8.8)			
P-B002 HLW Drain Vessel Pit				
P-0102 HLW Receipt/Storage/Blending Cell				
P-0102A HLW Receipt/Storage/Blending Cell				
P-0104 Ultrafiltration Cell				
P-0106 Feed Evaporator/Ultrafiltration Cell				
P-0108 Feed Receipt Cell				
P-0108A Feed Receipt Cell				
P-0108B Feed Receipt Cell				
P-0108C Feed Receipt Cell				
P-0109 Acidic/Alkaline Effluent Collection Cell				
P-0111 Cesium Ion Exchange Cell				
P-0112 Cesium Eluant Collection Cell				
P-0117 Treated LAW Feed Cell				
P-0117A Treated LAW Feed Cell				
P-0118 Alkaline Effluent Collection Cell				
P-0123 Hot Cell				
P-0105, P-0105A, P-0105B, P-0105C Process Bulge Areas				

Table 4-6 Secondary Containment in Cells and Caves in the WTP

Cell/Cave	Approximate Cell Dimensions (L×W, in feet)	Miscellaneous Treatment Systems, Subsystems, or Tanks in Cell/Cave (Largest Plant Item in Bold Type)	Volume of Largest Plant Item in Cell/Cave (US Gallons)	Minimum Secondary Containment Height (feet)
Southeast, Southwest, and Northwest Process Bulge Areas: P-0201, P-0201A, P-0203, P-0203A, P-0203B, P-0204, P-0206, P-0207, P-0208, P-0209, P-0210, P-0212	Minimum secondary containment for these cells/caves has been deleted and superceded by Flooding Volume for 28 Ft Level in PT Facility, 24590-PTF-PER-M-03-001 (DWP Attachment 51, Appendix 8.8)			
P-0304 Waste Feed Evaporation Room	72 × 54	FEP-SEP-00001A/B FEP-DMST-00001A/B FEP-COND-00001A/1B/2A/2B/3A/3B	4,200	TBD
P-0320 Ion Exchange Evaporation Room	54 × 36	CNP-DISTC-00001 TEP-DISTC-00001	500	TBD
P-0325 Treated LAW Evaporator Room	54 × 36	TLP-SEP-00001 TLP-COND-00001	4,200	TBD
P-0410 Utility Area Room	(90 × 36) + (36 × 18)	PWD-RK-00001/14/18/20 CXP-RK-00004 FRP-RK-00013 CNP-RK-00005 PWD-RK-00007/46 HPS-RK-00009 PWD-RK-00008 CXP-RK-00005/6/7 RDP-RK-00014/15	N/A	TBD
P-0415 Utility Area Room	54 × 54	PWD-RK-00005/09/12 TLP-RK-00005/6/7	N/A	TBD
P-0423 Utility Area Room	81 × 54	UFP-RK-00067/68/69/70/71/72/73 PWD-RK-00004/06/13/17/51 HLP-RK-00007/8/9	N/A	TBD

Table 4-6 Secondary Containment in Cells and Caves in the WTP

Cell/Cave	Approximate Cell Dimensions (L×W, in feet)	Miscellaneous Treatment Systems, Subsystems, or Tanks in Cell/Cave (Largest Plant Item in Bold Type)	Volume of Largest Plant Item in Cell/Cave (US Gallons)	Minimum Secondary Containment Height (feet)
P-0425 Utility Area Room	54 × 54	PWD-RK-00002/03/11/19 FRP-RK-00012/14/19 FEP-RK-00004/5/6/7/8	N/A	TBD
P-0430 Cesium Nitric Acid Recovery Condenser Room	45 × 36	CNP-HX-00002/3	TBD	TBD
Analytical Laboratory				
A-B003 Lab Area Sink Drain Collection Vessel Cell	Minimum secondary containment for these cells has been deleted and superseded by Flooding Volume for LAB Facility, 24590-LAB-PER-M-02-001 (DWP, Attachment 51, Appendix 11.8).			
A-B004 Hot Cell Drain Collection, Vessel Cell				
LAW Vitrification Plant				
L-0123, Melter 1 Process Cell	Minimum secondary containment for these cells has been deleted and superseded by <i>Flooding Volume for LAW Facility, 24590-LAW-PER-M-02-002</i>			
L-0124, Melter 2 Process Cell				
L-0126, Effluent Cell				
L-B001B, C3/C5 Drains/Sump Collection Vessel Room				
L-0218, Caustic Scrub Blowdown Collection Berm	26 × 31	LVP-VSL-00001	14,579	TBD
HLW Vitrification Plant				
H-B014 Wet Process Cell North	Minimum secondary containment for these cells/caves has been deleted and superseded by Flooding Volume for HLW Facility, 24590-HLW-PER-M-02-003 (DWP, Attachment 51, Appendix 10.8).			
H-B014 Wet Process Cell South				
H-B021 SBS Drains Collection Cell No 1				
H-B035 Canister Decon Cave				
H-B039A, Canister Rinse-Bogie Maint Room				
H-B039B, Canister Rinse Tunnel				

Table 4-6 Secondary Containment in Cells and Caves in the WTP

Cell/Cave	Approximate Cell Dimensions (L×W, in feet)	Miscellaneous Treatment Systems, Subsystems, or Tanks in Cell/Cave (Largest Plant Item in Bold Type)	Volume of Largest Plant Item in Cell/Cave (US Gallons)	Minimum Secondary Containment Height (feet)
H-0304A, Melter 2 Equipment Decontamination Pit				
H-0117, Melter Cave No. 1 (South)				
H-0117, Melter Cave No. 1 (West)				
H-0310A, Melter 1 Equipment Decontamination Pit				
H-106, Melter Cave No. 2 (South)				
H-106, Melter Cave No. 2 (West)				
H-0302, Active Services Cell Melter 2				
H-0308, Active Services Cell Melter 1				
H-B005, SBS Drains Collection Cell No. 2				

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Table 4-7 Containment Buildings Summary

Location	Approximate Dimensions (L × W × H in feet)
Pretreatment Plant	
P-0123 Pretreatment Hot Cell Containment Building	350 × 51 × 52
Pretreatment Maintenance Containment Building	
PM0124 Hot Cell Crane Maintenance Area	54 × 51 × 52
P-0121A Spent Resin Dewatering	28 × 18 × 28
P-0122A Waste Packaging Area	26 × 51 × 28
P-0123A Remote Decontamination Maintenance Cave	55 × 51 × 28
P-0124 C3 Workshop	24 × 24 × 16
P-0124A C3 Workshop	(73 + 15 × 15) + (16 × 15 + 13)
P-0125 Filter Cask Airlock	24 × 20 × 28
P-0125A Filter Cask Area	28 × 18 × 28
P-0128A MSM Repair Area	24 × 18 × 28
P-0128 Temporary Storage Room	24 × 17 × 28
P-0223 Pretreatment Filter Package Maintenance Containment Building	40 × 20 × 28
P-0335 Pretreatment Air Filter Package Containment Building	118 × 54 × 42
LAW Vitrification Plant	
L-0112 LAW LSM Gallery Containment Building	151 × 60 × 24
ILAW Container Finishing Containment Building	
L-0109B Swabbing Area Line 2	21 × 15 × 24
L-0109C Decontamination Area Line 2	18 × 15 × 24
L-0109D Inert Fill Area Line 2	55 × 15 × 24
L-0115B Swabbing Area Line 1	21 × 15 × 24
L-0115C Decontamination Area Line 1	18 × 15 × 24
L-0115D Inert Fill Area Line 1	55 × 15 × 24
L-109E Container Monitoring/Export Area	19 × 18 × 14
L-115E Container Monitoring/Export Area	19 × 18 × 14

Table 4-7 Containment Buildings Summary

Location	Approximate Dimensions (L × W × H in feet)
L-0119B LAW Consumable Import/Export Containment Building	35 × 40 × 20
L-226A LAW C3 Workshop Containment Building	40 × 35 × 19
LAW Pour Cave Containment Building	
L-B015A Melter 1 Pour Cave	16.5 × 20
L-B013C Melter 1 Pour Cave	16.5 × 20
L-B013B Melter 2 Pour Cave	16.5 × 20
L-B011C Melter 2 Pour Cave	16.5 × 20
L-B011B Future Melter 3 Pour Cave	16.5 × 20
L-B009B Future Melter 3 Pour Cave	16.5 × 20
ILAW Buffer Container Containment Building	
L-B025C Container Buffer Store	22 x 22 x 7.5
L-B025D Container Rework	22 x 14 x 7.5
HLW Vitrification Plant	
H-0117, H-0116B, H-0310A HLW Melter Cave No. 1	145 × 35 × 55
H-0106, H-0105B, H-0304A HLW Melter Cave No. 2	145 × 35 × 55
H-0136 IHLW Canister Handling Cave Containment Building	140 × 18 × 48
H-0133 IHLW Canister Swab and Monitoring Cave Containment Building	10 × 80 × 58
H-0311A/B HLW Vitrification Plant C3 Workshop Containment Building	(30 × 27 × 19) + (33 × 15 × 19)
H-0104 HLW Filter Cave	104 × 38 × 19
H-B032 HLW Pour Tunnel No. 1 Containment Building	140 × 11 × 21
H-B005A HLW Pour Tunnel No. 2 Containment Building	140 × 11 × 21
H-0410B, H0411 HLW Waste Handling Area Containment Building	TBD
HLW Drum Swabbing and Monitoring Area	
H-0126A/B Swabbing and Monitoring Area	52 × 16 × 10
H-B028 Cask Transfer Tunnel	15 × 52 × 10

Table 4-8 WTP Facility Miscellaneous Treatment Systems and Sub-Systems

No.	System/ Subsystem	Component Number	Description	Material	Total Volume (US gallons)
Pretreatment Facility					
1	CNP	CNP-EVAP-00001	Separator Vessel	Hastelloy	RESERVED
2	CNP	CNP-HX-00001	Cesium Evaporator Concentrate Reboiler	Stainless Steel	NA
3	CNP	CNP-DISTC-00001	Cesium Nitric Acid Rectifier Column	Stainless Steel	RESERVED
4	CNP	CNP-HX-00002	Cesium Evaporator Primary Condenser	Stainless Steel	NA
5	CNP	CNP-HX-00003	Cesium Evaporator Inter-Condenser	Stainless Steel	NA
6	CNP	CNP-HX-00004	Cesium Evaporator After-Condenser	Stainless Steel	NA
7	FEP	FEP-SEP-00001A	Waste Feed Evaporator Separator Vessel	Stainless Steel	13,359
8	FEP	FEP-SEP-00001B	Waste Feed Evaporator Separator Vessel	Stainless Steel	13,359
9	FEP	FEP-RBLR-00001A	Reboiler	Stainless Steel	NA
10	FEP	FEP-RBLR-00001B	Reboiler	Stainless Steel	NA
11	FEP	FEP-COND-00001A	Primary Condenser	Stainless Steel	NA
12	FEP	FEP-COND-00001B	Primary Condenser	Stainless Steel	NA
13	FEP	FEP-COND-00002A	Inter-Condenser	Stainless Steel	NA
14	FEP	FEP-COND-00002B	Inter-Condenser	Stainless Steel	NA
15	FEP	FEP-COND-00003A	After-Condenser	Stainless Steel	NA
16	FEP	FEP-COND-00003B	After-Condenser	Stainless Steel	NA
17	PJV	PJV-HEPA-00001A	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
18	PJV	PJV-HEPA-00001B	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
19	PJV	PJV-HEPA-00001C	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
20	PJV	PJV-HEPA-00001D	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
21	PJV	PJV-HEPA-00001E	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
22	PJV	PJV-HEPA-00001F	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
23	PJV	PJV-HEPA-00001G	Primary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
24	PJV	PJV-HEPA-00002A	Secondary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
25	PJV	PJV-HEPA-00002B	Secondary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
26	PJV	PJV-HEPA-00002C	Secondary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
27	PJV	PJV-HEPA-00002D	Secondary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
28	PJV	PJV-HEPA-00002E	Secondary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
29	PJV	PJV-HEPA-00002F	Secondary HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
30	PJV	PJV-FAN-00001A	Exhaust Fan	Stainless Steel	NA
31	PJV	PJV-FAN-00001B	Exhaust Fan	Stainless Steel	NA

Table 4-8 WTP Facility Miscellaneous Treatment Systems and Sub-Systems

No.	System/ Subsystem	Component Number	Description	Material	Total Volume (US gallons)
32	PJV	PJV-FAN-00001C	Exhaust Fan	Stainless Steel	NA
33	PJV	PJV-DMST-00002A	Demister	Mesh Pad/ Stainless Steel	NA
34	PJV	PJV-DMST-00002B	Demister	Mesh Pad/ Stainless Steel	NA
35	PJV	PJV-DMST-00002C	Demister	Mesh Pad/ Stainless Steel	NA
36	PVP	PVP-ADBR-00001A	Carbon Bed Adsorber	TEDA/Stainless Steel	NA
37	PVP	PVP-ADBR-00001B	Carbon Bed Adsorber	TEDA/Stainless Steel	NA
38	PVP	PVP-CLR-00001	After-Cooler	Stainless Steel	NA
39	PVP	PVP-OXID-00001	VOC Oxidizer Unit	Stainless Steel	NA
40	PVP	PVP-FILT-00001	Adsorber Outlet Filter	Synthetic Fibrous Materials/Stainless Steel	NA
41	PVP	PVP-HEME-00001A	HEME Filter	Packed Fiber Bed/Stainless Steel	NA
42	PVP	PVP-HEME-00001B	HEME Filter	Packed Fiber Bed/Stainless Steel	NA
43	PVP	PVP-HEME-00001C	HEME Filter	Packed Fiber Bed/Stainless Steel	NA
44	PVP	PVP-HX-00002	Vessel Vent Scrubbing Liquid Cooler	Stainless Steel	NA
45	PVP	PVP-SCB-00002	Caustic Scrubber	Metal Intalox Packing/ Stainless Steel	3,237
46	PVV	PVV-HEPA-00001A/B	HEPA Filter- Primary		
47	PVV	PVV-HEPA-00002A/B	HEPA Filter- Secondary		
48	PVV	PVV-FAN-00001A/B	Exhaust Fans		
49	PVV		Stack and associated equipment		
50	TLP	TLP-SEP-00001	Treated LAW Evaporator Separator Vessel	Stainless Steel	13,359
51	TLP	TLP-RBLR-00001	Reboiler	Stainless Steel	NA
52	TLP	TLP-COND-00001	Primary Condenser	Stainless Steel	NA
53	TLP	TLP-COND-00002	Inter-Condenser	Stainless Steel	NA
54	TLP	TLP-COND-00003	After-Condenser	Stainless Steel	NA
LAW Vitrification					
1	LOP	LOP-FCLR-00001	Melter 1 Primary Film Cooler	Stainless Steel	NA
2	LOP	LOP-FCLR-00002	Melter 1 Standby Film Cooler	Stainless Steel	NA
3	LOP	LOP-FCLR-00003	Melter 2 Primary Film Cooler	Stainless Steel	NA
4	LOP	LOP-FCLR-00004	Melter 2 Standby Film Cooler	Stainless Steel	NA
5	LOP	LOP-SCB-00001	Melter 1 Submerged Bed Scrubber	Ceramic Packing/Hastelloy	4,948
6	LOP	LOP-SCB-00002	Melter 2 Submerged Bed Scrubber	Ceramic Packing/Hastelloy	4,948
7	LOP	LOP-WESP-00001	Melter 1 Wet Electrostatic Precipitator	6% Molybdenum/Stainless Steel	6,347
8	LOP	LOP-WESP-00002	Melter 2 Wet Electrostatic Precipitator	6% Molybdenum/Stainless Steel	6,347

Table 4-8 WTP Facility Miscellaneous Treatment Systems and Sub-Systems

No.	System/ Subsystem	Component Number	Description	Material	Total Volume (US gallons)
9	LMP	LMP-MLTR-00001	LAW Melter	Stainless Steel/Alloys	1,860
10	LMP	LMP-MLTR-00002	LAW Melter	Stainless Steel/Alloys	1,860
11	LVP	LVP-SCB-00001	LAW Melter Offgas Caustic Scrubber	Metal Intalox Packing/Stainless Steel	TBD
12	LVP	LVP-HEPA-00001A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
13	LVP	LVP-HEPA-00001B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
14	LVP	LVP-HEPA-00002A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
15	LVP	LVP-HEPA-00002B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
16	LVP	LVP-HEPA-00003A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
17	LVP	LVP-SCO-00001 (located on SKID-00002)	Selective Catalytic Oxidizer	Stainless Steel	NA
18	LVP	LVP-SCR-00001 (located on SKID-00002)	Selective Catalytic Reduction Unit	Stainless Steel	NA
19	LVP	LVP-HTR-00001A	Electric Heater	Stainless Steel	NA
20	LVP	LVP-HTR-00001B	Electric Heater	Stainless Steel	NA
21	LVP	LVP-HTR-00002 (located on SKID-00002)	Electric Heater	Stainless Steel	NA
22	LVP	LVP-HX-00001 (located on SKID-00002)	Heat Exchanger	Stainless Steel	NA
23	LVP	LVP-ADBR-00001A/B	Offgas Mercury Adsorber	Stainless Steel	NA
24	LVP	LVP-EXHR-00001A	Offgas Exhausters	Stainless Steel	NA
25	LVP	LVP-EXHR-00001B	Offgas Exhausters	Stainless Steel	NA
26	LVP	LVP-EXHR-00001C	Offgas Exhausters	Stainless Steel	NA
HLW Vitrification					
1	HMP	HMP-MLTR-00001	Melter 1	Stainless Steel/Alloys	1,078
2	HMP	HMP-MLTR-00002	Melter 2	Stainless Steel/Alloys	1,078
3	HOP	HOP-WESP-00001	Wet Electrostatic Precipitators	6% Molybdenum/ Stainless Steel	NA
4	HOP	HOP-WESP-00002	Wet Electrostatic Precipitators	6% Molybdenum/Stainless Steel	NA
5	HOP	HOP-SCO-00001 (located on Catalyst Skid HOP-SCO-00002)	Thermal Catalytic Oxidizer	Stainless Steel	NA
6	HOP	HOP-SCO-00004 (located on Catalyst Skid HOP-SCO-00003)	Thermal Catalytic Oxidizer	Stainless Steel	NA

Table 4-8 WTP Facility Miscellaneous Treatment Systems and Sub-Systems

No.	System/ Subsystem	Component Number	Description	Material	Total Volume (US gallons)
7	HOP	HOP-SCR-00001 (located on Catalyst Skid HOP-SCO-00002)	NOx Selective Catalytic Reducer	Stainless Steel	NA
8	HOP	HOP-SCR-00002 (located on Catalyst Skid HOP-SCO-00003)	NOx Selective Catalytic Reducer	Stainless Steel	NA
9	HOP	HOP-ABS-00002	Silver Mordenite Column	Calcium Silicate/ Stainless Steel	NA
10	HOP	HOP-ABS-00003	Silver Mordenite Column	Calcium Silicate/ Stainless Steel	NA
11	HOP	HOP-FCLR-00001	Film Cooler	Stainless Steel	NA
12	HOP	HOP-FCLR-00002	Film Cooler	Stainless Steel	NA
13	HOP	HOP-FCLR-00003	Film Cooler	Stainless Steel	NA
14	HOP	HOP-FCLR-00004	Film Cooler	Stainless Steel	NA
15	HOP	HOP-HEPA-00001A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
16	HOP	HOP-HEPA-00001B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
17	HOP	HOP-HEPA-00002A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
18	HOP	HOP-HEPA-00002B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
19	HOP	HOP-HEPA-00007A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
20	HOP	HOP-HEPA-00007B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
21	HOP	HOP-HEPA-00008A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
22	HOP	HOP-HEPA-00008B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
23	HOP	HOP-HTR-00001B	HEPA Preheater	Stainless Steel	NA
24	HOP	HOP-HTR-00002A	HEPA Preheater	Stainless Steel	NA
25	HOP	HOP-HTR-00005A	HEPA Preheater	Stainless Steel	NA
26	HOP	HOP-HTR-00005B	HEPA Preheater	Stainless Steel	NA
27	HOP	HOP-HX-00001 (located on Catalyst Skid HOP-SCO-00002)	Heat Exchanger (Catalyst Skid Preheater)	Stainless Steel	NA
28	HOP	HOP-HX-00002	Heat Exchanger (Silver Mordenite Preheater)	Stainless Steel	NA
29	HOP	HOP-HX-00003 (located on Catalyst Skid HOP-SCO-00003)	Heat Exchanger (Catalyst Skid Preheater)	Stainless Steel	NA
30	HOP	HOP-HX-00004	Heat Exchanger (Silver Mordenite Preheater)	Stainless Steel	NA
31	HOP	HOP-FAN-00001A	Booster Extraction Fans	Stainless Steel	NA

Table 4-8 WTP Facility Miscellaneous Treatment Systems and Sub-Systems

No.	System/ Subsystem	Component Number	Description	Material	Total Volume (US gallons)
32	HOP	HOP-FAN-00001B	Booster Extraction Fans	Stainless Steel	NA
33	HOP	HOP-FAN-00001C	Booster Extraction Fans	Stainless Steel	NA
34	HOP	HOP-FAN-00008A	Stack Extraction Fans	Stainless Steel	NA
35	HOP	HOP-FAN-00008B	Stack Extraction Fans	Stainless Steel	NA
36	HOP	HOP-FAN-00008C	Stack Extraction Fans	Stainless Steel	NA
37	HOP	HOP-FAN-00009A	Booster Extraction Fans	Stainless Steel	NA
38	HOP	HOP-FAN-00009B	Booster Extraction Fans	Stainless Steel	NA
39	HOP	HOP-FAN-00009C	Booster Extraction Fans	Stainless Steel	NA
40	HOP	HOP-FAN-000010A	Stack Extraction Fans	Stainless Steel	NA
41	HOP	HOP-FAN-000010B	Stack Extraction Fans	Stainless Steel	NA
42	HOP	HOP-FAN-000010C	Stack Extraction Fans	Stainless Steel	NA
43	HOP	HOP-ADBR-00001A (located on Activated Carbon Adsorber Skid HOP-ADBR-00001)	Activated Carbon Adsorber	Stainless Steel	NA
44	HOP	HOP-ADBR-00001B (located on Activated Carbon Adsorber Skid HOP-ADBR-00001)	Activated Carbon Adsorber	Stainless Steel	NA
45	HOP	HOP-ADBR-00002A (located on Activated Carbon Adsorber Skid HOP-ADBR-00002)	Activated Carbon Adsorber	Stainless Steel	NA
46	HOP	HOP-ADBR-00002B (located on Activated Carbon Adsorber Skid HOP-ADBR-00002)	Activated Carbon Adsorber	Stainless Steel	NA
47	HOP	HOP-HEME-00001A	HEME	Packed Fiber Bed/Stainless Steel	NA
48	HOP	HOP-HEME-00001B	HEME	Packed Fiber Bed/Stainless Steel	NA
49	HOP	HOP-HEME-00002A	HEME	Packed Fiber Bed/Stainless Steel	NA
50	HOP	HOP-HEME-00002B	HEME	Packed Fiber Bed/Stainless Steel	NA
51	HOP	HOP-SCB-00001	Submerged Bed Scrubber	Ceramic Packing/Alloy 22	4,516
52	HOP	HOP-SCB-00002	Submerged Bed Scrubber	Ceramic Packing/Alloy 22	4,516

Table 4-8 WTP Facility Miscellaneous Treatment Systems and Sub-Systems

No.	System/ Subsystem	Component Number	Description	Material	Total Volume (US gallons)
53	HOP	HOP-HTR-00001 (located on Catalyst Skid HOP-SCO-00002)	Catalyst Skid Electric Heater	Stainless Steel	NA
54	HOP	HOP-HTR-00007 (located on Catalyst Skid HOP-SCO-00003)	Catalyst Skid Electric Heater	Stainless Steel	NA
55	PJV	PJV-HEPA-00004A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
56	PJV	PJV-HEPA-00004B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
57	PJV	PJV-HEPA-00005A	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
58	PJV	PJV-HEPA-00005B	HEPA Filter	Synthetic Fibrous Materials/Stainless Steel	NA
59	PJV	PJV-HTR-00002	Electric Heater	Stainless Steel	NA
60	PJV	PJV-FAN-00002A	Pulse Jet Fans	Stainless Steel	NA
61	PJV	PJV-FAN-00002B	Pulse Jet Fans	Stainless Steel	NA