



MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No.
24590-PTF-MV-PVP-VSL-00001



Project:	RPP-WTP	P&ID:	24590-PTF-M6-PVP-P0018
Project No:	24590	Process Data Sheet:	Deleted
Project Site:	DOE Hanford Site	Vessel Drawing	24590-PTF-MV-PVP-P0002
Description:	HEME DRAIN COLLECTION VESSEL		

Reference Data

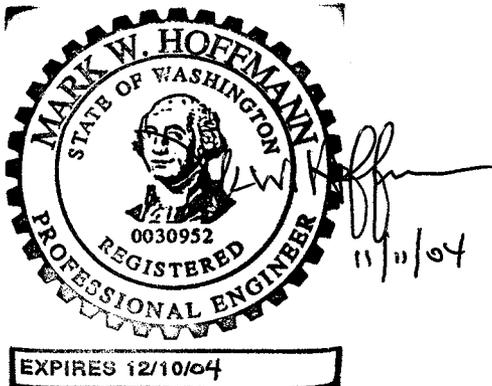
Charge Vessels (Tag Numbers)	None
Pulsejet Mixers / Agitators (Tag Numbers)	None
RFDs/Pumps (Tag Numbers)	None

Design Data

Quality Level	QL-2	Fabrication Specs	24590-WTP-3PS-MV00-TP001		
Seismic Category	SC-II	Design Code	ASME VIII Div 1		
Service/Contents	Radioactive Liquid	Code Stamp	Yes		
Design Specific Gravity	1.00	NB Registration	Yes		
Maximum Operating Volume	gal 1650	Weights (lbs)	Empty	Operating	Test
Total Volume	gal 1969	Estimated **	9700	23473	26161
Radiograph	100% (Note 4)	Actual **			

Inside Diameter	inch	72			Wind Design	Not Required	
Length/Height (TL-TL)	inch	88			Snow Design	Not Required	
		Vessel Operating	Vessel Design	Coil/Jacket Design	Seismic Design	24590-WTP-3PS-SS90-T0001 24590-WTP-3PS-MV00-TP002	
Internal Pressure	psig	0	15	NA	Seismic Base Moment **	ft*lb	
External Pressure	psig	0.58	FV	NA	Postweld Heat Treatment	Not Required	
Temperature	°F	113	200	NA	Corrosion Allowance	Inch	0.04
Min. Design Metal Temp.	°F	40			Hydrostatic Test Pressure **	psig	

Please note that source, special nuclear and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the U.S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only.



This bound document contains a total of 2 sheets

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Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Top Head	SA-240-304 (Note-2)	See Drawing	Auxiliary (See Note 1)
Shell	SA-240-304 (Note-2)	See Drawing	Primary (See Note 1)
Bottom Head	SA-240-304 (Note-2)	See Drawing	Primary (See Note 1)
Support (Skirt)	SA-240-304 (Note-2)	**	NA
Jacket/Coils/Half-Pipe Jacket	NA	NA	NA
Internals	SA-240-304 (Note-2)	See Drawing	NA
Pipe	SA-312-304 (Note-2)	See Drawing	See Note-1
Forgings/ Bar stock	SA-182-304 (Note-2)	See Drawing	As Note-1 for Nozzle Necks
Bolting/Gaskets	NA	NA	NA

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	NA	Insulation Material	NA
Insulation Thickness (inch)	NA	External Finish	NA

Remarks

**** To be confirmed by Seller**

Note 1: All welds forming part of the primary and auxiliary containment including nozzle attachment welds shall be subjected to 100% volumetric examination.

Note 2: Material shall have carbon content of 0.030% Max. Dual certified. Non-Welded specialty items are excluded

Note 3: Vessel volumes are approximate and do not account for manufacturing tolerances, nozzles, and displacement of internals

Note 4: This vessel is located in a Black Cell