

	MECHANICAL DATA SHEET: VESSEL	PLANT ITEM No. 24590-LAB-MV-RLD-VSL-00164
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Project	RPP-WTP	P&ID	24590-LAB-M6-RLD-P0002
Project No:	24590	Process Data Sheet.	N/A
Project Site:	Hanford	Vessel Drawing	24590-LAB-MV-RLD-P0001
Description:	Lab Area Sink Drain Collection Vessel		

Reference Data

**ISSUED BY
RPP-WTP PDC**

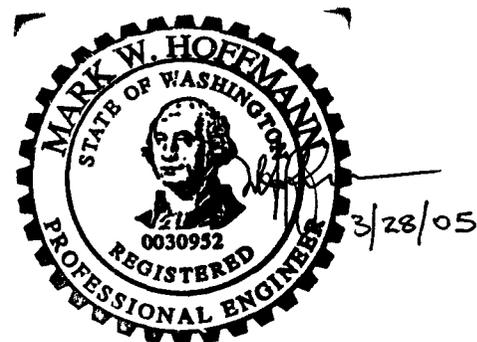
Charge Vessels (Tag Numbers)	None
Pulsejet Mixers / Agitators (Tag Numbers)	None
RFDs/Pumps (Tag Numbers)	None

Design Data

Quality Level	Commercial Grade		Fabrication Specs	24590-WTP-3PS-MV00-TP001		
Seismic Category	SC-III		Design Code	ASME Sec VIII Div 1		
Service/Contents	Radioactive Liquid Drain		Code Stamp	Yes		
Design Specific Gravity	1.02		NB Registration	Yes		
Maximum Operating Volume	gal	2740 (Note 5)	Weights (lbs)	Empty	Operating	Test
Total Volume	gal	3180 (Note 5)	Estimated	7200	28110	33910
			Actual **			

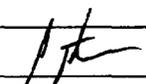
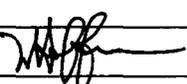
Inside Diameter	inch	102			Wind Design	Not Required	
Length/Height (TL-TL)	inch	69			Snow Design	Not Required	
		Vessel Operating	Vessel Design	Coil/Jacket Design	Seismic Design	24590-WTP-3PS-FB01-T0001 & 24590-WTP-3PS-MV00-TP002	
Internal Pressure	psig	0	15	N/A	Seismic Base Moment **	ft*lb	
External Pressure	psig	0.15	7	N/A	Postweld Heat Treatment	Not Required	
Temperature	°F	78	240	N/A	Corrosion Allowance	Inch	0.04
Min. Design Metal Temp.	°F	-20			Hydrostatic Test Pressure **	psig	

Note: 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.



EXPIRES 12/10/06

This Bound Document Contains a total of 2 sheets.

1	3/20/05	Issued for Permitting Use				
0	3/5/04	Issued for Permitting Use	K. Brightman	M. Arulampalam	C. Slater	M. Hoffmann
REV	DATE	REASON FOR REVISION	PREPARER	CHECKER	REVIEWER	APPROVER





MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No.
24590-LAB-MV-RLD-VSL-00164

Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Top Head	UNS N08367	See Drawing	Auxiliary
Shell	UNS N08367	See Drawing	Primary
Bottom Head	UNS N08367	See Drawing	Primary
Support (Skirt)	SA-240-304 (Carbon Content Max 0.030%)	**	NIA
Jacket/Coils/Half-Pipe Jacket	NIA	NIA	NIA
Internals	UNS N08367	See Drawing	Secondary
Pipe	UNS N08367, SB622-N10276IN06022, Note 4/1	See Drawing	See Note-1
Forgings/ Bar stock	UNS N08367	See Drawing	As Note-1 for Nozzle Necks
Bolting/Gaskets	None	NIA	NIA

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	Not Applicable	Insulation Material	Not Applicable
Insulation Thickness (inch)	Not Applicable	Weld Surface Finish	De-scaled as laid

Remarks

**** To be confirmed by Seller**

Note 1: Nozzle necks below maximum operating level are primary, others auxiliary.

Note 2: Design life is 40 years

Note 3: Deleted

Note 4: Material of construction for nozzle NO 7 and NO 6 shall be Hastelloy C22 or Hastelloy C-276/1

Note 5: Vessel volumes are approximates and do not account for manufacturing tolerances, nozzles, and displacement of internals.

Note 6: Revised design data/1

Note 7: Contents of this document are Dangerous Waste Permit Affecting./1