



MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No.

24590-PTF-MV-CNP-VSL-00001

R10327824

Project:	RPP-WTP	P&ID:	24590-PTF-M6-CNP-P0001, 24590-PTF-M6-CXP-P0007
Project No:	24590	Process Data Sheet:	Deleted
Project Site:	Hanford	Vessel Drawing:	24590-PTF-MV-CNP-P0005
Description:	Cesium Evaporator Eluate Lute Pot		

ISSUED BY
RPP-WTP PDC
2/11/2004
DATE

Reference Data

Charge Vessels (Tag Numbers)	NIA
Pulsejet Mixers / Agitators (Tag Numbers)	NIA
RFDs/Pumps (Tag Numbers)	NIA

Design Data

Quality Level	QL-1		Fabrication Specs	24590-WTP-3PS-MV00-TP001		
Seismic Category	SC-I		Design Code	ASME VIII Div 1		
Service/Contents	Radioactive Liquid		Code Stamp	Yes		
Design Specific Gravity	1.03		NB Registration	Yes		
Maximum Operating Volume	gal	108.47	Weights (lbs)	Empty	Operating	Test
Total Volume	gal	108.47	Estimated	1,000	2,020	1,910
			Actual *			

Inside Diameter	inch	48			Wind Design	NIA	
Length/Height (TL-TL)	inch	3			Snow Design	NIA	
		Vessel Operating	Vessel Design	Coil/Jacket Design	Seismic Design	24590-WTP-3PS-MV00-TP002 24590-WTP-3PS-SS90-T0001	
Internal Pressure	psig	30	40	NIA	Seismic Base Moment *	ft*lb	
External Pressure	psig	ATM	ATM	NIA	Postweld Heat Treat	Per Spec	
Temperature	°F	77	237	NIA	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.



EXPIRES 12/10/04

This bound document contains a total of 2 sheets

0	6/26/04	Issued for Permitting Use				
REV	DATE	REASON FOR REVISION	PREPARER	CHECKER	REVIEWER	APPROVER



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Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Top Head	SA240 304 (Note 1)	See Drawing	Auxiliary (see Note 2)
Shell	SA240 304 (Note 1)	See Drawing	Primary (See Note 2)
Bottom Head	SA240 304 (Note 1)	See Drawing	Primary (See Note 2)
Support	SA240 304 (Note 1)	See Drawing	NIA
Internal Coils/External Jacket	NIA	NIA	NIA
Internals	SA240 304 SA312 TP304 (Note 1)	See Drawing	NIA
Pipe	SA312 TP304 (Note 1)	See Drawing	See Note 2
Forgings/ Bar stock	SA182 F304 (Note 1)	See Drawing	NIA
Gaskets	NIA	NIA	NIA
Bolting	NIA	NIA	NIA

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	None	Insulation Material	None
Insulation Thickness (inch)	None	Internal Finish	Welds descaled as laid
		External Finish	Welds descaled as laid

Remarks

* To be determined by the vendor.

Note 1 : 304 stainless steel materials shall have carbon content of 0.030% maximum, dual certified. Non-welded items are excluded from this requirement.

Note 2 : All welds forming part of the primary and auxiliary containment including nozzle attachment welds shall be subjected to 100% volumetric examination.

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

Note 4: This vessel is in a Black Cell

Note 5: Contents of this document are Dangerous Waste Permit affecting.