Equipment Inspection Brief
API 510 Pressure Vessels

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL, SEE U-1(j)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Walker Stainless Equipment Company, Inc. 625 State Street, New Lisbon, Wisconsin 53950
(Name and address of Manufacturer)

2. Manufactured for DUPONT MERCK MICROCIRCUITS INDUSTRIES P.O. Box 30200, Manati, PR 00674-3000
(Name and address of Purchaser)

3. Location of installation DUPONT MICROCIRCUITS INDUSTRIES Hwy. 686, KM 2.3, Manati, PR 00674-3000
(Name and address)

4. Type: Vertical (Horiz., vert., or sphere) | Jacketed Vessel (Tank, separator, etc.) | Jacket volume= .25 cu.ft. (Capacity) | SPG-21768 (Mfg's serial No.)

None (CRN) | SPG-21768-1-D, Rev. 1 (Drawing No.) | 2000 (Year built)

5. ASME Code, Section VIII, Div. 1 Edition 1998, Addenda 1999 (Edition and Addenda (date)) | None (Code Case No.)

6. Shell (a) No. of course(s): One (b) Overall length (ft & in.): 2'-2"

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft. & in.	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	18.5"ID	2'-2"	SA-240Tp.304	.07"	None	--	---	---	--	---	---	---	---
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7. Heads: (a) SA-240Tp.304 (Mat'l Spec. No., Grade or Type) H.T.-Time & Temp. (b) ---- (Mat'l Spec. No., Grade or Type) H.T. Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical	Conical	Hemispherical	Flat	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	Radius	Diameter	Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Bottom	.07"	None	18"	---	--	---	---	---	---	X	1	None	70%
(b)	---													

If removable, bolts used (describe other fastening) ---------- (Mat'l Spec. No., Grade, Size, No.)

8. Type of Jacket Type 1 & 3, dimple Jacket Closure Ogee & Weld (Describe as ogee & weld, bar, etc.)

If bar, give dimensions, if bolted describe or sketch ----------

P MAWP 75 (Internal) ---- (external) psi at max. temp. 300 (internal) --- (external) °F. Min. design metal temp. -20 °F at 75 psi.

10. Impact test NO, CHARPY IMPACT TEST EXEMPT PER UHA-51(d), (e), & (f).
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. Hydro@250psi Proof test UG-101(m) Burst: BT#W-47=2150 PSI

12. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Jkt. In/Out.	4	1"	THD'D PIPE	SA312Tp.304	---	.133"	None	---	UW16.1(a)	---	---
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13. Supports: Skirt No (Yes or no) Lugs -- (No.) Legs 4 (No.) Others ----- (Describe) Attached Bottom --- Welded (Where and how)

14. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
(List the name of part, item number, mfg's. name and identifying number)

---------- None ----------

15. Remarks: 38 Gallon, type 316L Mix Tank with Code Jacket ---- Customer to supply and install proper safety valves. ----
Inner shell and head are SA240,316L. Shell has a nominal thickness of .135"; head has a minimum thickness of .121".
Item 11.) Proof test: BT#W-47 was tested and accepted by Inspector on April 4, 1996.
Formed channel headers are SA240, 304. ---------Jacket: "For Noncorrosive Service." ---------

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to ASME Code for Pressure Vessels, Section VIII, Division 1.

UM Certificate of Authorization No. 31,490 Expires 06/30 2001

Date 11/17/2000 Name Walker Stainless Equipment Company, Inc. (Manufacturer) Signed Marshall M. Frasch (Representative)

Platcom 10-98E98