#105665

FORM U-2 MANUFACTURERS' PARTIAL DATA REPORT A part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1(a) Manufactured by Shell		(Name and a	ddress of manufacture	i of part)		
(b) Manufactured for Ameri		ng & Rerining	g CO., Tacon Idress of manufacturer	of vessell		
2. Manufacturer's Serial No. of I 3. (a) Drawing Prepared by S			ing No. N	et'l Bd. No. 365	Year Built 1978	
(b) Description of Part Inspect				& Eundle		
4. The chemical and physical p						
Pressure Vessel Code. The co		·				
		Ti-	min to right holos,	Sociion vin, Division	(Year)	
and Addenda through 63	(Date) a	nd Code Case No.	9 <u>9</u> 2 5 9	DI CONTRACTOR DE		
5. Special Service per UG-120(d	. 20 - 20					
6. Postweld Heat Treatment: Ter		F. 1	Time	490.0		
Items 7-12 incl. to be completed	55			hells of heat exchang	ers	
7. Shell: Material SA-53-	B pec. No., Grade)	Nomina	Thickness 3/8	. in. Corrosion allo		
Diam. 1 ft 8 i		9. ft $8-1/4$ i	n.			
8. Seams: Longitudinal	Smls. elded, Dbl., \$ngl, L			Eff	iciency <u>80</u> %	
H.T. Temp F 1		1974		v/Back-Up (Co.	rner Joint)	
N HONE	11110	72	(Welded	(ibl., Sngl., Lap. Butt)		
R.T. None (Spot, Partial, or Full)	No. of Cours	ies 1			(1 5)	
9. Heads (a) Material			(b) Material			
o. House (a) material	(Spec. No., G	rade)	(b) Waterial	THE RESERVE OF THE PARTY OF		
Location	Minimum	Corrosion	Crown	Knuckle	Elliptical	
	Thickness	Allowance	Radius	Radius	Ratio	
(a)			N 2.33	es i ocusas succession		
[(b)]	1.		1 I			
Conical	Hen	nispherical	Flat	Sid	to Pressure	
Apex Angle	200,000,000	Radius	Diameter	The second secon	(Convex or Concave)	
	+			***************************************		
(a)	-		4		Alternatives and traces	
[(b)]	1 24 =		als s o m	L		
If removable, bolts used (describ	e other fastening	1 ε)	(Material Spe	c. No., G., Size, No.)		
10. Type of Jacket			Proof Test			
11. Jacket Closure	nounce and an executive	If bar	, give dimensions		- Service Control of C	
	as oges & weld, I	bar, etc.)	. •			
If bolted, describe or sketch.	7.9	7.5		tump. 300°		
12. Constructed for max. allows			por at man	Co.		
(when less than -20 F)	The state of the s	rostatic,	tes	st pressure115	psi.	
Items 13 and 14 to be completed			c	10 2/0		
13. Tubesheets: Stationary — Ma	G IBITOTE	(Spec. No. Gr.)	S Diam	19-3/8 (Subject to pres	in.	
Nominal Thickness 1-7/8	" Corrosion	Allowance 0 - 1/	/16 in. Attachmen	t Welded		
Floating — Material	(Spec. No., Gr		in.	(Welded	Solted)	
Nominal Thickness Attachment		n Allowance	in.			
	49-316ELC (Spec. No., Gr.)	O.D.	3/4 in. Nor	minal Thickness	28 gauge	
Number 320		Straight (Straight or "U"	0			
Items 15-18 incl. to be completed	for inner chaml			l'eat exchangers		
15. Shell: Material		Nominal Thi		in. Corrosion Allowa	nce in	
	. No., Grade)	22 22			The second second line	
Diam. ft.	in Length		n.		A District Control (Approximate Control (Approximat	
16. Seams: Longitudinal (V	Velded, Dbl. Sngl. I	R.T.	(Spot or	(Full)	iciency %	
H.T. Temp F Tim	0	Girth (Walded	DEL C11 B : 8	(Spot, Partial or Full)	o. of courses	
		(weiged,	Dbl. Sngl. Lap. Butt)	(Spot, Partial or Full)		

FORM U-2 (BACK)

					(Spec. No., Gr	80.01	
	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Redius	Elliptical Ratio	
(a)					4 (40)	, , , , , , , , , , , , , , , , , , ,	
(b)	L 1			L			
	Conical Apex Angle		emispherical Radius	Flat Diameter		Side to Pressure (Convex or Concave)	
(a) (b)							
	novable, bolts used (des	cribe other fasten	ings)	renewa militariani selen			
18, Co	onstructed for max. allo	owable working pronounation or com I for all vessels wh	essure pai dessure pai dessure pai dessure per applicable	at max. temp	F. Min. temp. (wh	en less than — 20 F	
(Info	Purpose et, Outlet, Drain) Nu	Diam. Imber or Size	Type Mater	Nominal Thickness			
Sh	ell In & Out 1	& 1 10"-1	50# RFSO SA-	-106-В .5"	Weld	Welded	
Ve	nt	1 1"		234-WPB 6000		Welded	
Ve co	ertify that the stateme	Conts made in this	ERTIFICATE OF CO	DMPLIANCE and that all details sels, Section VIII, Div	of material, construction 1.		
)ate .	Sign Sign	ned Shell.				0.20	
			(Manufacturer)	prated by	(Representative	1 Kars	
′U'' C	Certificate of Authorizati		(Manufacturer) 7704	orated by sxpl	(Representative		
I, the and/or of Manu- belief, VIII, D By sig	undersigned, holding r the State or Province Boston, Mass facturer's Partial Data R , the Manufacturer has bivision 1. gning this certificate ne described in this Manu in any manner for any	on No. CER' a valid commiss of Ark eport on Col constructed this ither the Inspecto	(Manufacturer) 7704 THECATE OF SHOP sion issued by the N cansas hav 23 1 part in accordance w r nor his employer m Dato Report. Further	expi WSPECTION ational Board of Bo and employed by one inspected the part 9Z, and state to the stat	(Representative res Feb. 28, poiler and Pressure Vessel that, to the best of my rand Pressure Vessel expressed or implied aspector nor his em	essel Inspectors on Ins. Co. described in this valued and al Code, Section concerning the apployer shall be	