## FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

				seconderinters.	THE PERSON NAMED IN COLUMN TWO					7/	-	
1.	Manufactured ar	nd certified by .	Estrel	la AG, B	rühlmattw (Name and addres	eg 20, CH	I-4107 Ett	ingen - S	Switzerla	nd		
2.	Manufactured fo	or_Americ	, Cyanami	Ld	(Name and addre	ess of purchaser)				2.77441	<del></del>	
з.	Location of inst	allation un	known (US	SA)	(Name an	d address)						
			200202	And the Sales	(rumo un							
4.	Type vert	Tank	90'	(Mfgr's serial No.)		(CRN)	900.35.26 (Drawing)	9rev.2	(Nat'l. Bd. No.)			
	The chemical an							ASME Boiler and	)	sel Code. The d	esign,	
								_				
		/A lenda (date)		1970 Code Case No.	7.33		Lethal	Service Special service per UG	120(d)			
tems	6-11 incl. to be o	completed for sin	gle wall vessels,	jackets of jacket 0,315 Nom. Thk. (in.)		hells of heat exc	3'6.68"		botto	p shell 9 m shell 1	16,57	
		Matl. (Spec. No., Gr	rade)	Nom, Thk. (in.)	Corr.	Allow. (in.)	Diam.	I.D. (ft & in.)		Length (Overall)(ft & in	15/010	
7	Seams:	sngl.				N/A R.T. (Spot or Full)		0,7	-925	1562	4 -14	
		Lo	ng. (Dbl., Sngl.)			R.T. (Spot or Full)		Eff. (%)		H.T. Temp. (°F)	5/8/6	
		35 <b>'</b>		SI	ngl.		no I	RT		1	ure cave)  7e  13,1  13,1  13,1	
		Time		Gir	ngl. th (Dbl., Sngl.)			ipot, Partial, or Full)		No, of Courses		
_	Heads: (a) Mati	SA 516	CI., 60			(b) Mat	N/A					
8.	Heads: (a) Mati		(Spe	c. No., Grade)		(5) (6)		(Spec	No., Grade)	o., Grade)		
	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press (Convex or Con	built)  design,  16,57  16,57  sure ncave)  ve  13,1 113,  in.)	
(a)	bottom	0,315	0,039	43,26	4,33					concav	7e	
(b)												
1-1							N/A					
	If removable, b	olts used (descr	ibe other taste	nings)			(Matl., Spec. No.,	Gr., Size, No.)				
	Typ 1 + 3											
	Type of Jacket	welded		N/A							1 h	
10.	Jacket Closure.		as ogee & weld, b		If bar, give dim	ensions			It boite	d, describe or s	sketch.	
	10	0	en e	i i	350	1995	Min. design met	_:	20	172.5	10.4	
11.	MAWP	0	psi at n	nax. temp	330			al temp		oF at	_ psi.	
	Hydro., pneu., o	-	58	-,5		psi.						
tems	12 and 13 to be		be sections									
12.	Tubesheets:	N/A Stationary Matl (St	nec No. Gr.)	Diam. (in.) (Subje	ct to pressure)	Nom. Thk. (	(in.)	Corr. Allow. (in.)		Attach (Welded, Bolted)		
	Stationary Matl. (Spec. No., Gr.)			Diam. (m./ (Subje	ct to pressure,				1	50.0		
	N/A" Floating Matl. (Spec. No., Gr.)			Diam. (in.)		lin \	Corr. Allow. (in.)		Attach.			
		Floating Mati. (Spe	ec. No., Gr.)	Diam.	(in.)	Nom. Thk. (	un.)	Corr. Allow. (III	4.	Attach	sketch.  psi.  13,1 113,1 113,1 113,1	
13.	Tubes:	N/a	Spec. No., Gr.)		O.D. (in.)	No.	n. Thk. (in. or Gauge	e) Number		Fype (Straight or "U	123	
		Mati. (S	spec. No., Gr.)		O.D. (III.)	Non	n. The this of Gauge	, idamber				
	14-17 incl. to be		nner chambers d	of jacketed vesse						op shell		
14.	Shell: SA 2	85 Gr.C Matl. (Spec. No., Gr	rade)	0,47 Nom. Thk. (in.)		9 (on jac Allow. (in.)	cketed par	(t) 39" (I.D. (ft & in.)	Bot	tom shell Length (Overall)(ft & in		
15.	Seams:	sngl.	.ong. (Dbl., Sngl.)		-	full R.T. (Spot or Full)		100 Eff.(%)		1562 H.T. Temp. (°F)		
		351		sngl.			full			1		
	14	Time		Girt	h (Dbl., Sngl.)			Spot, Partial, or Full)	-	No. of Courses		
16.	Heads: (a) Matl. SA 516 CL.60 (Spec. No., Grade)				(b) Matl.	SA 516 CL.	. 60 (Spec. No., Gr	rade)				
			(Opec. III	J., Grade,				1	1			
	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press (Convex or Con		
(8)	Top	0,47	0	39,37	3,94					both		
(b)	Bottom	11	0,039	11	. "					"		
	If removable, b	olts used (desci		nings) SA 1	93 B7 28	piece UN	C 1" x 6" Matl., Spec. No., Gr		piece UN	C 1" x 3	3/4"	
17.	MAWP15/	50	psi at r	nax. temp	350	°F.	. Min. design met	tal temp2	0	°F at65	psi.	
	Hydro., pneu.,		65			p	923					

This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

18. Nozzles, In	spection a	nd Safety Val	ve Openings:		N 25 C			r
Purpose nlet, Outlet, Drain, etc.)	No.	Diam. or Size	Туре	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
inlet	N1+N2	6"	150 lbs	SA181C160	0,472	N/A	welded	top
inlet	N3+4+		150 lbs	SA181C160	0,433	N/A	welded	top
outlet	N6+N7	2"	150 1bs	SA181C160	0,433	N/A	welded	top
eat.nozz			N/A	SA106GrB	0,177	N/A	welded	jacket
end.nozz			N/A	SA106GrB	0,1	N/A	welded	jacket
nspot ope	n.G1-	G4 4"	NPT	SA 105	0,75	N/A	welded	jacket
					-		-	
					-			
					+			
	LI		,			11.1 !.	1.	
Supports:	Skirt	Lugs	4 Legs(No.)	Other	Attached _	welded on ja	(Where and how)	
10/20/20/20/20		ed vesse	0/2 200 2/2	al position		me and identifying stamp)		
				with Code Ca	se 1970		3, 45	
				acc. to UG 20 (f		(1)		
	- Cimp cc u	T Com Thips	o costing	CERTIFICATE OF S				
cortify that	the statem	ante mada in	this report ar	a correct and that all of			and workmanship	of this vessel co
								7
" Certificate	of Authori	zation No.	20453	expires_	Aug. 5	, 199	1_ 6	1-11
te7.12	2.1990	Co. nam	e Estrel	expires_ 1a AG, 4107 E1	ttingen	Signed Hr. R. W	Withrich MC	Delly
	F	KIDIETUA A	16 410	CERTIFICATE OF S	HOP INSPECT	ON SULT ERLAND	)	
essel construct	ed by	of the section and	igi alon	d by the Wational Boa	at Ballar and	Broomen Vessel Inspe	store and/or the St	ata or Browless
				oyed by LR			ctors and/or the Sta	ate of Frovince
	EN Y						described in this Ma	anufacturer's Da
				O, and state that, to	the best of my	knowledge and belief,	the Manufacturer ha	s constructed th
				n VIII, Division 1. By s				
				esel described in the				
			//	jury of property damas				
te HAY 8	,91	Signed_	11.7	M		missions 8654	N.7 6	65-
1/8/8/91		E.	P. SUHOMBO	(Authorized Inspector)			Nat'l Board State, Province and	No.)
, ,			CERT	TIFICATE OF FIELD	ASSEMBLY CO	MPLIANCE		
certify that	the field a	ssembly cons	struction of all	parts of this vessel cor	nforms with the	requirements of Sectio	n VIII, Division 1 of	the ASME Boi
d Pressure Ve	sel Code.							
J" Certificate	of Author	ization No		expires _		, 19	<del></del> -	
ite		Co. nam	(Assemi	oler that certified and constructed fie	eld assembly)	. Signed	(By Representative)	
		-		TIFICATE OF FIELD				<u></u>
the undersign	ed, holdir	ng a valid co		d by the National Boa		Pressure Vessel Inspe	ctors and/or the Sta	ate or Province
			of	and empl		compared the statemer	nts in this Manufactu	rer's Data Repo
th the describ	ed pressure	e vessel and s		referred to as data item:		A TELEPHONE AND DESCRIPTIONS OF THE PROPERTY OF A CONTRACT	, r	
				me and that, to the be				
				ode, Section VIII, Divis				
				r the Inspector nor his				
				Furthermore, neither th				
			resource metapostatica, p					
ury or proper	ty damage	or a loss of a	ny kind arising	from or connected wit	h this Inspection	١,		

\_\_ Commissions \_

(Authorized Inspector)

[Nat'l Board (incl. endorsements), State, Prov., and No.]