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

			e ned						ME COUR NU			., D.V.				
1. Mar	rufactured and	d certified b	ογ	CASA	LB INDU	STRIBS, I	NC. 4	10 SOUT	H AVE., GARWOOI							
			BO !! M /			0 0 01 B.		•	(Name and address	s of Menufactu	rer)					
2. Mar	nufactured for		KOHH 6	HAAS C	O., BRI	STOL, PA.	1900		(Name and address of Pu	rchaeer)						
			DOUM S	L WAAC 1	'A BAV	PORT, TEX	40 771									
3. Loc	ation of install	ation	KUUD (O., DAI	TURI, IEA	NO II.	3 1 L	(Name and add	ireas)						
		VERT.			p g	ESSURE VE	SSEL		8142-A							
4. Тур	XO:	(Horiz., vert.,	or ephere)	-		000000 70		perator, jkt. v	essel, heet exh., etc.)				(Mfg's seriel No.)			
		NA			81	45-10				547	,			1995		
	K	CRM()				(Orawing N	lo.)			(Nat'l. Bd	l. Ho.)		(Year built)			
5. ASI	ME Code, Sec	tion VIII, Di	iv. 1 _	1992	ADITIO	N, A-93 A	DDEND	<u> </u>		i A			NA			
					Edition and	d Addenda (dete	1		Code Case	No.		Spec	cial Service pe	w UG-120(d)		
items (8-11 incl. to t	e complete	ed for sin			ckets of jac	keted v	esseis, si	heil of heat excha	ngers, or ch	hamber of i	multi-chamber	vessels.			
6. She	ell (a) No. o	f course(s):	:	(2)		(b	Overal	ll length ((ft & in.):	9,-8,						
·		 						τ						1		
	Coun	[Material Thickne			, 		 	Long. Joint (Cat. A)		Circum. Joint (Cat. A, B, (+	Heat Treatment	
No.	No. Diemeter, in. Length (ft & in.) 1 4 1-6 1 8 1-0 11		6 in.)	Spec./G	Nom.	Corr. Type		Full, Spot, None Eff.		Type Full, Spot, None		Eff.	+	Temp. Time		
2	4'-6"	1'-8"		SA516-		.375"	.125	1 1	SPOT	.85%		SPOT	851			
 '	1 - 7	1 -0		SA516-	10	1.3/3	.125	+	SPOT	1004		SPOT	.851	NA	NA	
		SASIA	GR-70	NO BRA	T TREAT	1		L	L	SA516 C	9-70 (M	O HEAT THE	AT)	_ 		
7. Hea	eds: (a)	Ja / LU ,				.T Time & Te	 mp.	······································	(b)	OULTE D	R=70 (NO HEAT TREAT) (Mat'l Spec. No., Grade or Type) H.T. = Time & Temp.					
Г		Thick	nees	Radius		-u	<u> </u>	^~~~		Fiat	Side	Side to Pressure		Category A	Category A	
	Location (Top, Bottom, Ends)	Min.	Corr.	Crown	Knuckie	Elliptical Ratio	3	Conical ex Angle	Hemispherical Radius	Diameter	Convex	Concave	Туре	Full, Spot, None	Eff.	
(a)	TOP	.375*	.125	NA	NA	2:1		NA	NA	NA	YES	YES	NA	NA	NA	
(b)	BOTTO	.375	.125	NA	WA	2:1		NA	NA	NA	YES	YES	NA .	NA	NA.	
If removable, bolts used (describe other fastening)																
									(Mai	r'i Spec. No., Gi	rade, size, NO.)					
8. Ty	pe of jacket		NA						Jacket cl	osure	NA.					
												(Describe as	ogee & weld.	Dar, etc.)		
If b	par, give dimer		NA.											lted, describ		
9. MA	AWP 13		(external)	psi at	max. tem	ip. 45		450		lin. design	metal temp	<u>-15</u>	°F	et <u>FV/1</u>	psi ـــقد	
		NO														
10. in	npact test .	NV					į (tr	ndicate yes o	or no and the component	(s) impact teste	di					
44 LI					20	7 PSIG		Proof test	. !	NA .						
	lydro., pneu., 12 and 13 to		=					TOO! Lest		1.42						
		NA COMPLET		De section	NA				NA		NA			NA .		
12. Tubesheet: NA Nom. thk., in. Cerr. Allow., in. Attachment (welded or both									(befled)							
	NA.			NA.	4.55			NA.			NA		NA	·		
	Floating (M	lut'i Spec. No.)			Die.,	in.		N	lom. thk., irs.	Corr	. Allow., in.			Attachment		
13. T	'ubes:	NA.				N				IA		N		Type (Straight		
		Mat'i Spe	c. No., Grad	e or Type			O.D., in.		nom. t	hk., in. or gaug	•	Number		Type (Suegnt	G- ()	
Items	14-18 incl. to	be comple	eted for it						of heat exchange							
14. S	ihell (a) No.	of course(s)	NA			b) Over	all length	(ft & in.):	¥						
	Ceu	raela)		T i	Meterial	The	kness	T	Long. Joint (Cat. A)		Circu	m. Joint (Cat. A, S), & C)	Heat To	estment	
No.	Diameter, in.	Longth (ft & in.)	 	Grade or Type	Nom.	Corr.	Туре	Full, Spot, None	EH.	Туре	Full, Spot, None	EH.	Temp.	Time	
NA	NA.	NA		NA	N A	NA	WA	NA.	NA	NA.	NA	NA	NA	NA.	N.A.	
					A										***	
15. H	ieeds: (a) _	NA.							(b)	NAAK						
(Mat'l Spec. No., Grade or Type) H.T. — Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. — Time & Temp.																
Lecetion (Top,			Radius Elliptical				Conicel	Hemispherical	Flet		Side to Pressure		Category A			
	Bottom, Ende		Corr.	Crown	Knuckie	Retio	^^	pex Angle	Radius	Diemeter	Convex	Conceve	Type	Full, Spot, None		
(a)	<u> </u>	NA.		NA_	NA.	NA.		NA.	HA.	NA.		 	 	- NA	- NA	
(b)	<u> </u>		L NA L		NA.	l NA		NA	<u> </u>		1 114	NA	I NA I	- KA		
	ovable, bolts	used (descr	ribe other	fastening	ı)						Grade, eize, No.					

_	NA.			FORN	N U-1 (B	,		NA NA				
5.	MAWP		lexterneli	pei at max. te		itemal)	(external)	ч. м	in. design metal temp	A RESIDENCE CONTROL SERVICE	"F 81	are construction por
7.	Impact test	NO		NA		(Indices	s yes or no and	the compensation	i impact toolodi m			
8.	Hydro., pneu., or	comb. te	et press	4 b		Proof	test		' A A A A A A A A A A A A A A A A A A A			
9.	Nozzles, inspectio	n, and s	efety valve o	penings:								
	Purpose (Inlet,		Diameter	Flange	Me	torial	Nozst	Thickness	Reinforcement	How	Americal American	Location
	Outlet, Drein, etc.)	100.	er Stae	Type	Nezzto	Plange	Nom.	Cerr.	Material	Nosale	Flenge	(Inep. Open.)
	MANVAY	$\frac{1}{1}$	22"		SA516-70	1	375	125	SA516-70	<u> 11816 14</u>	11916.14	TOP HEAD
	LEVEL	(1)	3"	300# PAD	SA105		1.75	125	 !!	11816-14	NA.	
	SPARE OUTLET/SPARE	(4)	3"		SA105	1	.438	125	<u> </u>	0916.14	NA NA	
	OUTLET	(2)	2"		SA105		.344	125	NA	1916.14	NA.	
	VENT CONN	$\overline{\mathbf{u}}$	1-1/2"	3001 LJ	SA105		.281	125	NA.	11916-14	NA	
	INST. CONN	(1)	1"	300 LJ	SA125		.250	125	l NA	11816-14	<u> </u>	<u> </u>
20 .	Supports: Skirt	NO (Yes o		ge (4)	Legs .	MA. O	Others	<u> </u>	At	teched	VELORO TO S	BELL.
!1.	(List the name of NO PARTIAL	pert, iter	n number, m	•		-	seioned ins	pectors nave	been furnished for th	e tosowing st	ems or the rep	MATE:
!2 .	Remarks:	4						·····				
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

	ASME Code for Pre U Certificate of Au Date 4/3/95		•	ON VIII, Division 16980		Expires		SEPT 28	Signed	ala	ge. FLG	Der-Her.
			4		C	ERTIFICATE	OF SHOP	INSPECTION				
	and employed by the pressure vesse Manufacturer has employer makes as	describ construc ny warra hall be li	ERNPRO N ed in this Ma sted this pres inty, expressi	ATIONAL INS nufacturer's D sure vessel in ed or implied, (ate Report of accordance concerning t	oni with ASME	Code, Se	19 95 ection VIII, Di acribed in this	of LONG GRO of LONG GRO , and state that, ivision 1. By signing to a Manufacturer's Date any kind arising from sions MB//3	to the best of his certificate Report. Furth or connected	my knowledge neither the le nermore, neith with this inap	nepector nor his er the inspector section.
								MBLY COMPI	*			
	•			eport are corre	ect and that	the field as	sembly co	nstruction of	all parts of this vessi	il conforms w	itin the require	ments of ASME
	Code, Section VIII, Division 1. U Certificate of Authorization No.											
	Data .		. Name			(Assembl			Signed		(Representative	
											1-11-11-11-11-11-11-11-11-11-11-11-11-1	77
		, holding	a valid comn	nission issued				MBLY INSPE	CTION sessel inspectors and/o	r the State or	Province of	encountries committee of the little SM
					not included	in the certi	ficate of sl	hop inspectio	sure vessel and sta in, have been inspect	te that parti ad by me and	to the best o	f my kno wledge
	inspected and sub	jected to	o a hydrostat	ic test of _		pei	i. By signin	g this certific	h ASME Code, Section cate neither the Inepe Furthermore, neither t	ctor nor his e	mployer meke	s any warranty,

in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

(Authorized Inspector)

... Signed ...

.... Commissions ...

(Nex') Board Incl. endersoment, State, Province and No.)