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

			AS Req	juirea c	y the Pr	ovision	S OT 1	the AS	IVIE Code Ru	ies, Se	ction V	III, Divisior	<u> </u>		
1. Mar	nufactured and	certified	by <u>M</u>	undy	Industi	rial C	ontr	racto	rs, Inc. 1			Wilcrest	t, Ho	uston, I	X <u>77</u> 09
2. Mar	nufactured for	Ko	Sa 46	00_Hw	y 421 i	Worth	<u>Wiln</u>	ningto	on , NC 284					·	
3. Loca	ation of installs	ation _	KoSa	4600	Hwy 42.	l Nort	h Wi	ilmin	gton, NC 2 (Name and add						
4. Typ		Verti (Horiz., vert.					nk (Tank, se	parator, jkt.	vessel, heat exh., etc.)			<u> 7689-6</u>		s serial No.)	
	No	one RN)		<u> </u>	<u>4031-52</u>	2006 R				(Nat'l, E	6 8d. No.)		1	999 (Year built)	
5. ASN	ME Code, Secti	ion VIII, D	Div. 1 .	19	98, 199	99 Ad.			Code Case			NZ Spec		per UG-120(d)	
Items 6				ngle wall v	vessels, jack 1	•			nell of heat exchar	ngers, or o		multi-chamber	r vessels		
Г	Course	ı(s)		Γ	Material	Thick	ness	T	Long. Joint (Cat. A)		Circ	um. Joint (Cat. A, B,	& C)	Heat Tre	atment
No.	Dlamater, in.	Length (ft & in.)		Grade or Type	Nom.	Corr.	Туре	Full, Spot, None	Eff.	Туре	Full, Spot, None	Eff.	Temp.	Time
1	60"	7 ' -0	11	SA24	0/316L	.250	0	1	Spot	.85	1	Spot	. 85	and the said said	
	C	A 240	/2161							77. 240	/216T				
7. Hea	ids: (a) <u>D</u> (4 240			de or Type) H.T.	Time & Ter	n p.	• •	(b)	SA 240		. No., Grade or Type) H.T. — Th	ne & Temp.	
	Location (Top,	Thick	ness	Ĥac	dius	Elliptical	,	Conical	Hemispherical	Fiat	Sid	e to Pressure		Category A	
	Bottom, Enda) Min. Corr.			Crown	Knuckle	Ratio		ex Angle	Radius	Diameter	Convex		Турв	Full, Spot, None	Eff.
(a) (b)	Top Bottom	.250	0		3.6" 3.6"	2:1 2:1	<u> </u>					- X - X		Full Full	1.0
If remo	vable, bolts us	ed (descr	ibe other	fastening)	NA 💈	运 之	8-00			irade, size, No		,		
	ar, give dimens	NA ions _	15			4 E		450	Jacket ck			(Describe as	_ If b	olted, describe	
	interna		(external)	,	max temp. UHA 5.	(interr	nai)	(external) JG 201	al)	in, design	metal tem	р	or	at	psi.
	•		_	_			(In		no and the components	s) impact teste	ed)		·		
	ydro.,pXXXXX 12 and 13 to be		•		50psi 		_ Р	roof test	TVA						 -
	_	VA	ry (Mat'i Spe			Dia., in. (subj	ect to pre	ss.)	Nom. thk.,	ln.	Corr. A	llow., in.	Att	achment (welded or	bolted)
	Floating (Mat	'I Spec. No.)			Dia., In.			. No	om. thk., in.	Corr	r. Allow., in.			Attachment	
13. Tu	ıbes: N		ec. No., Grad	e or Type		-	0,D., in.		Nom. th	k., in. or gaug	le .	Number		Type (Straight o	r U)
Items 1		pe comple of course(nbers of jack				of heat exchanger	s.					
	·			1										· · · · · · · · · · · · · · · · · · ·	
No.	Course Diameter, in.	Length (ft & in.)	 	Material Grade or Type	Thick Norm,	Corr.	Туре	Long. Joint (Cat. A) Full, Spot, None	Eff.	Туре	um. Joint (Cat. A, B, Full, Spot, None	. & C)	Heat Tre	etment Time
								.,,,-			.,,,				
				 			L		(b)		1		- 1		
15. He	eads: (a)	NA	(Mat'l	Spec, No., Gr	ade or Type) H.T	Time & Te	mp.				(Mat'l Spec	. No., Grade or Type	e) H.T. — Ti	me & Temp.	Mar 117-2
15. He	· · · · · · · · · · · · · · · · · · ·	NA Thick		·	ade or Type) H.T		Ť	Control		eri.		e to Pressure	e) H.T. — Ti	me & Temp. Category A	Mar 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
15. He	Location (Top,			·		. — Time & Te Elliptical Ratio		Conical ex Angle	Hemispherical Radius	Flat Diameter		e to Pressure	Type		Eff.
15. He	Location (Top,	Thick	ness	Rac	dius	Elliptical			Hemispherical		Sid	e to Pressure		Category A	Eff.

FORM U-1 (Back)

6. MAWP NA	I)	p	osi at max, te		(ernal)	(external)	°F. M	in, design metal tem	ıp	- °Fat	ps
7. Impact test N	Α				[Indicate	yes or no and t	he component(s	impact tested			· >
8. Hydro., pneu., or o	comb. te	st press.	NA		Proof	test					
9. Nozzles, inspection	n, and sa	fety valve ope	enings:								
	ſ		1 1	AND THE MAT	orial	Nozzle 1	Thickness	Reinforcement	How At	tached	Location
Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Nozzie	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
lanway	1	16"	150#LJ	\$A312*	SA105	.250"	0	Integral	UW16.1e	2-4.1	Shell
nlet	1	6"	150#I _u J	SA312		.280"	0	Integral	UW16.1e	2-4.1	
outlet	1	6"	1	SA312*	SA105	.280"	0	Integral	UW16.1e	2-4.1	
ressure	2	1"		SA312*		.133"	0	Integral	UW16.1e	2-4.1	
Relief	1	3"		SA312*		.300"	0	Integral	UW16.1e	2-4.1	
'ent	1	1"		SA312*		.133"	0	Integral	UW16.1e	2-4.1	
emperature	1	1.5"	150#LJ	SA312*	SA105	.145"	0	Integral	UW16.1e	2-4.1	
Supports: Skirt Manufacturer's Pa (List the name of page 1).		a Reports prop	(No.) erly identified		(No.) by Commis	thers		cribe)		(Where	ad/welded end how) ort:
Shell, It						L/1					
2. Remarks: S	ee fo	orm U-4								· · · · · · · · · · · · · · · · · · ·	
Item No.	_19_	* All S	A312 is	grade	316L.						
_ Pressure	rel	ief devi	ces pro	vided_	oy Owne	er. NO	T FOR	LETHAL SERV	VICE	····	
				CE	RTIFICATE	OF SHOP C	OMPLIANCE	<u> </u>			
Date 21010			Mundy I	CI	(Manufactur	OF SHOP I	NSPECTION		Sivila	(Representative)	NC NC
and employed by the pressure vesse Manufacturer has employer makes an	Hô I describe construc ny warran nall be lia	artford ed in this Mand ted this presso nty, expressed	Steam Bufacturer's Daure vessel in lorimplied, o	ata Report o accordance concerning to personal inju	Insp. 8 n Z with ASME the pressure try or proper	Lange Ins. Code, Sec vessel descrity damage	9 99 tion VIII, Di ribed in this or a loss of	, and state that, vision 1. By signing the Manufacturer's Datany kind arising from the sions	to the best of notice the second of the thick certificate its Report. Further	ny knowledge neither the in ermore, neithe vith this insp	have inspected and belief, the espector nor his er the inspector
						ELD ASSEM					A Char
We certify that the Code, Section VIII, U Certificate of Au	Division	1. on No	17,642 Mundy I		_ Expires	N	May 27	all parts of this vess	, 18 2	000 (Representative	Inches of ASME
······································				CERTIFI	CATE OF F	ELD ASSEN	IBLY INSPE	CTION			
and employed by	H	artford	Steam E s Manufactu	by the Natio Soiler rer's Data	nal Board of Insp. (Report wit	Boiler and <u>Ins</u>	Pressure Ve CO • cribed press	ssel Inspectors and/	of <u>Har</u> ate that parts	referred to	
inspected and sub expressed or impli	jected to ed, conc	a hydrostatic erning the pres	cted and asse test of ssure vessel o	embled this 50 described in	pressure ve psi. this Manufa	ssel in acco . By signing acturer's Da	rdance with this certific ta Report, F	ASME Code, Section and ASME Code, Section at the Inspective the In	on VIII, Division ector nor his em the inspector no	1. The descri ployer make	bed vessel was s any warranty,
Date 2-3		Signed	Joseph Land		1. Tu	U	Commiss		664 h	SC142	e and No.1

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

ocation of installation	Same as above		(Name and address)		
Type: Vertica		Tank [Tank, separator, heat exh., etc.		7689-6-99 (Mfg's, ser	
	•	•	c.)		
None (CRN)	4031	-52006 Rev5 (Drawing No.)		6 (Net'l. Bd. No.)	1999 (Year built)
Data Report	· · · · · · · · · · · · · · · · · · ·				
Item Number			Remarks		
Item 19	Purpose:	Level	HT Exchanger	Drain	<u>Spare</u>
	No.:	2	2	1	1
		1.5"	20"	2.5"	2"
	Flange Type: MATERIAL	150#LJ	150#FFSO	150#LJ	150#LJ
	Nozzle:	SA312/316L	SA240/316L	SA312/316L	SA312/316L
	Flange:	SA105	SA105	SA105	SA105
	NOZZLE THICKNESS		0.11.00		D11100
	Nom.:	.145"	.375"	.203"	.154"
	_Corr.:	0	0	0	0
	Rein. Material:	Integral	Integral	Integral	Integral
	HOW ATTACHED			~	~
*.	_Nozzle:	UW16.le	UW16.1e	UW16.le	UW16.1e
	_Flange:	2-4.1	2-4-3a	2-4.1	2-4.1
	Location:	N/A	N/A	N/A	N/A
	"TJ# N-	17,642	<u>.</u> .	May 27	1× 2000
ficate of Authorization:	Type <u>"U"</u> No.	17,042	Expires	- Taciy 27	
218/00	_{lomo} Mundy Industr	rial Contracto	rs. Inc. signa	Junest	Sun 7
	lame <u>MUNGY INGUS L.I.</u>	. Lat. CONLECCO. (Manufacturer)	LS, LIIC. Signe		Representative)
			//		

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM) 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

							A.T	CDATIAN	cannana	CHYL	מיושרת זכ	e NC	28260					
i, Mar	nufactured and co	ertified by	BEN	NDEL C	CORPORATIO	N, 4823	ΙΥ •	GRAHAM	(Name and									·
2. Mar	ufactured for	KOSA,	WILMIN	GTON.	, NC				,									
		0.4	LLETT A.C.	A POIT	r.			(N	ame and add	ress of	Purcha	ser)						
_	ation of installation	on <u>S</u>	AME AS SHELL	ADUVI	В.				(Name an	d addre	ess)					TT-4.00		
. тур	e: (Desc	oription of		art (shel	I, two-plece he 01.50429		ndle))) B		s seria	-				(0	:RN) 1999		
	(Natl. B	d, No.)			(Drawing No				(Dr	awing p	repared	by)			, ,,	(Year b	ouilt)	
s. ASI	ME Code, Sectio	•	v. 1 _		98 ED.; /							,		0	alai Can	 dan UC	100/4	
s, She	⊮ (a)No.ofc	ourse(s):		(Edition ar ONE	nd Addenda	(date		length (ft &		le Case		710"	Spe	CIAI Serv	rice per UG-	120(0)	
	Course	(s)			Material	Thickne	\$8	· t	ong Joint (C	at. A)		CI	rcum, Join	t (Cat. A, B	& C)	Heat	Treatm	ent
No.	Diameter, in.	Length	(ft & in.)			Norn. C	orr.	Туре	Full, Spot, None		Eff.	Туре	Full, S	Full, Spot, None		Temp,	1	ime
1	מסייס6	7'0'	IT.	SA	240-316L	1/4"	011	1 1	NONE		70%		-			*	-	
								-										
	ds: (a)	.						<u> </u>	(b)	1,								
, ne	(a)	(Mať	l Spec. N	o., Grad	e or Type) H.T	Time & T	emp		····						e) H.T	Time & Tem	•	
	Location (Top,		kness		Radius	Elliptical		Conical	Hemisp			ļ		Pressure	Tues	Full, Spot,	egory A	Eff.
(a)	Bottom, Ends)	Min.	Corr.	Crow	vn Knuckle	Ratio	-	Apex Angl	e Rad	ius	Diam	ieter	Convex	Concave	Туре	ruii, Spot,	NONE	E11.
(a) (b)		 		<u> </u>			1											
	vable, bolts used	/describ	e other fa	stenina)	<u> </u>			, ,					•					
	dro., pneu., or co zzles, inspection		ety valve	opening			oof t	est				5-1-4-			w Attach		Loo	ation
	urpose (inlet,	No.	Diame or Si		'Flange Type	Mate Nozzle		lange	Nozzle Th	Cor			rcement iterial	Nozzi		Flange		Open.)
Ou	tlet, Drain, etc.	110.	01 31	20	1700	1102210		,Lange								-		• /
•																		
			<u></u>							-				Attached				
12. Su	pports; Skirt _	NO (Yes c	or No)	Luç	(No.)	Leg:		(No.)	_ Others	1		Describe				(Where		,
13. Re	marks <u>NO</u>	DESIG	N FUNC	TIONS	PERFORME	D BY BEN	NDE:	L CORPO	RATION;	CUSTO	MER I	O SPE	CIFY M	INIMUM I	ESIGN	METAL I	EMPE	RATUR
														1				
									OP/FIELD					abia of this		ira uaanal a	art oo	olorm
	e certify that the							at all cetal	s of materia	u, con	sirucao	n, and	WOLKILISI		. ∙ hieser	ne vezzert	an Co	HUIH
	Certificate of A				28314		'	Ε	xpires		M	MAY 1		1//	XX	2001		
Da	4/2	199	Name		BENDE	L CORPOR	RAT	ION			_ Si	gned		Mhu				
								acturer)			•			<u>(R</u>	eprese	ntative)		
	,			- ساس	-1k 1				HOP/FIELD				Incocoto	re and the	State	ar Drovinco	of N	IC.
	he undersigne				nission issue JTUAL INSU				a or polier s	ma Pr	essure	vesse		RWOOD, I		r Province have in		
an	d employed by essure vessel	part des	cribed in	this M	lanufacturer's	Data Rec	ont	on 4	-2/ .19	9	9 .	oi and sta						
Ma	anufacturer has	constru	cted this	pressu	re vessel par	t in accorda	ance	e with ASN	/E Code, S	ection	VIII, Div	ision 1	. By signi	ng this cert	ificate n	either the l	nspect	or nor
his	employer mak	es any v	varranty,	expres	sed or implied	d, concerni	ing tl	he pressui	re vessel pa	rt desc	cribed in	this M	anufactu	er's Data F	Report. F	-urthermore	e, neith	er the
	spector nor his e				~ ~ ~	~		//	r property d	amage	or a los	s of an	y kind aris	sing from or	connec	ted with thi	s inspe	ection.
ļ	ate <u>4-2/-</u>		Signe	ed _{	Coul E		· ·	e su		Comr				G 5 A				d No. Y
*]	FACTORY MUT	UAL				(Author	IZec	Inspecto	Γ)			(Nati E	ward incl	, endorser	nent, St	ate, Provin	ice an	u 140.)