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

				02 10 2	= .		6670 Ea	st Har	rie Blud Ch	arlotte	NC 1	28215					
1. M	anufactured and	d certified by	Mard_Ta	ank & Heat	Exchang	er Corp.,	DULULA										
2. M	anufactured for	KOSA, 4600	Highwa	ay 421 Nor	th, Wilmir	ngton, NC		6	me and addres	H, I		urer)	111 - 3	11 10	1		
2 1	solion of install	lation VOCA	AGOO LII	abusey 421	Modh M	lilminator			nd address of I	Purcha	ser)						
J. L	cation of instal	lation KOSA,	4000 NI	gnway 421	Moitin' A	riirningtor	, INC ZO		(Name and ad	ldress)		6.7%		*			
4. Ty	/pe: \	/ertical		Hea	at Exchan	ger .		Н	IC-4981		1		02-HC-4981		30)19	2003
		ert., or sphere)	(Tanl	k, separator		~	., etc.)		s serial No.)		(CRN)	- You to	(Drawing No.)	-			(Year built)
5. A	SME Code, Sec	tion VIII, Div. 1			200)1		ji.	1 10 1		lsy	211077			- 4		
				Editi	on and Ad	denda (da	e) _	•	C	ode Ca	se No.		Spe	ecial S	ervice	per UG-12	O(d)
ltems	6 - 11 incl. to b	e completed for	single w	all vessels,	jackets of	acketed v	ssels, sh	ell of h	eat exchanger	s, or c	hamber	of multi-	chamber vess	els.			
6. SI	nell (a) No. o	f course(s):		3	20 I I 20	1101	(b) O	erall le	ength (ft & in.):		5	1 N 1	7'-8	.25"	- 1		
	Course	e(s)		Material		Thickne	SS		Long, Joint (Cat. A		Circu	ım. Joint (Cat.	A. B &	C)	Heat Tr	ealment
No.		Length (ft & in.		JGrade or T		lom.	Corr.	Туре	Full, Spot,	None	Eff.	Туре	Full, Spot, No	one	Eff.	Temp.	Time
1	57" ID	3'-10.875"	1	SA516-70			0.0625"	1 1	Spot		85%	1_1_	Spot		5%		
	57" ID SEE	2'-10,375" REMARKS	-	SA516-70 SA516-70).0625").0625"	1 S	Spot None		85% 85%	1 1	Spot Spot		5% 5%		
7 1.		I_IXEIII II II I		5,1010 10	<u>×</u>	L.	7,0020	1			0070	II	IOpot		570		
7. H	eads: (a)	(Mai'l Spo	g. No., G	Frade or Typ	ne) H.T T	ime & Ter	nn		(b)	1.70	Mat'l S	nec No	Grade or Type	e) H T	• Tim	ne & Tomo	
Γ	11							1	111111					1			
	Location (Top Bottom, Ends		Corr.	Crown	dius Knuckle	Elliptica Ratio	I Con		Hemispherical Radius	FI Diam		Convex	o Pressure Concave	Type		Category A	ne Eff.
(a)												_	V - 15				
(b)	-				<u> </u>				10,100	:						11 14	
lf b	pe of jacket ar, give dimens	ions <u>-</u>		-	1 25		11	2 2 2 1	Jacket clos		Johan	e, size, N (D	escribe as oge			ır, etc.) ed, describe	or sketch.
lf b 9. M∕	ar, give dimens	0 1	5 ernal)	psi at max.		375 (internal	(€	external	Jacket clos	ure	1	- 14	escribe as oge))	of bolt	ed, describe	
lf b 9. M/ 10. lm	ar, give dimens NWP <u>15</u> (inter	0 1	ernal)	1 11 11	e yes or no	(internal	(€	external	Jacket clos	ure	1	(D	escribe as oge))	of bolt	ed, describe	
If b 9. M/ 10. lm 11. H	ar, give dimens AWP 15 (inter pact test <u>No</u> ydro., (448/44, 64	0 1 nal) (exte	ernal)	(Indicate	e yes or no	(internal) (e	external	Jacket clos	ure	1	(D	escribe as oge))	of bolt	ed, describe	
If b 9. M/ 10. Im 11. H tems	ar, give dimens AWP 15 (inter pact test No ydro., pawne, si	0 1 nal) (exter per UG-20f	ernal) ss. ube secti	(Indicate	e yes or no	(internal) (e	external	Jacket clos	ure	1	(D	escribe as oge))	of bolt	ed, describe	
If b 9. M/ 10. Im 11. H tems	ar, give dimens AWP 15 (inter pact test No ydro., (#####, ## 12 and 13 to be tbesheet:	0 1 nal) (exterper UG-20f	ernal) ss. ube secti	(Indicate 19 ions.	e yes or no	(internal	omponent	external	Jacket clos *F D pact tested)	Min. c	1	(D	escribe as oge) (tempe	°F at	ed, describe	*F
If b 9. M/ 10. Im 11. H tems 12. Tu	ar, give dimens NWP 15 (inter pact test No ydro., pactes, 61 12 and 13 to be abesheet:	O 1 nal) (exterper UG-20f #####b. lest presection of the SA-240 S3 stationary (Mat')	ernal) ss. ube secti	(Indicate 19 ions.	yes or no	(internal	omponen of test	external	Jacket clos *F i) pact tested) 1.75" Nom. thk., in.	Min. c	lesign r	(D netal terr	escribe as oge at test O" Allow., in.) (tempe	°F at	ed, describe 150 of Welded	*F
If b 9. M/ 10. Im 11. H tems 12. Tu	ar, give dimens AWP 15 (inter pact test No ydro., (#####, ## 12 and 13 to be tbesheet:	O 1 nal) (exterper UG-20f #####b. lest presection of the SA-240 S3 stationary (Mat')	ernal) ss. ube secti	(Indicate 19 ions.	e yes or no 95 60 ia., in. (sul	(internal	omponen of test	external	Jacket clos *F i) pact tested) 1.75" Nom. thk., in.	Min. c	lesign r	(D	escribe as oge at test O" Allow., in.) (tempe	of bolt of at erature	ed, describe 150 of Welded	*F
If b 9. M/ 10. Im 11. H tems 12. Tu	ar, give dimens NWP 15 (interpact lest No ydro., (444744, 64 12 and 13 to be abesheet: S Floating (Mat'l S	O 1 nal) (exterper UG-20f COMPleted for the SA-240 S3 Stationary (Mat'l) Spec. No.) SA-789 S318	ernal) ss. ube section 1803 Spec. No	(Indicate 19 ions. D.) D	e yes or no	(internal	omponen of test	external	Jacket clos *F i) pact tested) 1.75" Nom. thk., in.	Min. c	lesign r	(D netal terr	escribe as oge at test O" Allow., in.) (tempe	of bolt of at erature	ed, describe 150 e of Welded ent (welded	*F
If b 9. M/ 10. Im 11. H tems 12. Tu	ar, give dimens NWP 15 (interpact lest No ydro., (444744, 64 12 and 13 to be abesheet: S Floating (Mat'l S	O 1 nal) (exterper UG-20f CHANNEL Lest present completed for the SA-240 S3 stationary (Mat'l Spec. No.)	ernal) ss. ube section 1803 Spec. No	(Indicate 19 ions. D.) D	e yes or no 5 60 ia., in. (sul	and the c Production 2.75"	omponen of test	external	Jacket clos *F i) pact tested) 1.75" Nom. thk., in.	Min. c	lesign r	(D netal terr	escribe as oge np2(at lest) (tempe	°F at erature	ed, describe 150 e of Welded ent (welded	psi *F
If b 9. M/ 10. Im 11. H 112. Ti	ar, give dimens AWP 15 (inter pact test No ydro., (#####, ## 12 and 13 to be ribesheet: Floating (Mat'l S	O 1 nal) (exterper UG-20f COMPleted for the SA-240 S3 Stationary (Mat'l) Spec. No.) SA-789 S318	ube sections to the section of the s	(Indicate 19 ions.	e yes or no 15 60 ia., in. (sul	and the c Pro	omponent of test ss.)	cxternal d(s) imp	Jacket clos *F Description of the state of	Min. c	lesign r	(D netal terr	escribe as ogenp20 at test) (tempe	°F at erature	ed, describe 150 of Welded ent (welded - ultachment Straight	psi *F
If bb. M/J. If bb.	ar, give dimens AWP 15 (inter pact test No ydro., pact, ea 12 and 13 to be abesheet: Floating (Mat'l s abes: Mat'l 14 - 18 incl. to be ell (a) No. of	nal) (exterper UG-20f resultable lest present completed for the SA-240 S3 stationary (Mat'l Spec. No.) SA-789 S318 Spec. No., Grace completed for the course(s):	ube section 1803 Spec. No	(Indicate 19 ions. Dia., in e ambers of j.	e yes or no 15 60 ia., in. (sul	(internal and the c Prod 1.75" oject to pre 1" D., in.	omponent of test sss.) Nor	external	Jacket clos *F Description of the state of	Min. c	lesign r	(D netal terr	escribe as ogenp20 at test) Att	°F at erature	ed, describe 150 of Welded ent (welded - ultachment Straight	psi *F
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If bb. M/J. If bb.	ar, give dimens NWP 15 (inter pact test No ydro., pureut, si 12 and 13 to be abesheet: Floating (Mat'l si thes: Mat'l 14 - 18 incl. to be ell (a) No. of	nal) (exterper UG-20f resultable lest present completed for the SA-240 S3 stationary (Mat'l Spec. No.) SA-789 S318 Spec. No., Grace completed for the course(s):	ssube section 1803 Spec. No spec. No spec.	(Indicate 19 ions. Dia., in ambers of j. 4 Material	60 yes or no object of the property of the pro	(internal and the c Prod 1.75" oject to pre 1" D., in.	omponent of test sss.) Nor	external	Jacket clos *F 1) 1.75" Nom. thk., in. 0.083 Nom. thk., in. exchangers, ngth (ft & in.): Long, Joint (6	Min. c Min. c or gau	Corr.	Corr. A	escribe as oge ap2(at test o" ullow., in. 1794 Number 7'-5 m. Joint (Cat. F	Alt:	If bold of F at F a	Welded Welded ent (welded attachment Straight e	or bolled)
If b 19. M/ 10. Im 111. H 112. Ti 133. Ti 14. Sh	ar, give dimens NWP 15 (inter pact lest No ydro., partie, si 12 and 13 to be abesheet: Floating (Mat'l S abes: Mat'l 14 - 18 incl. to be ll (a) No. of Course Diameter, in.	O 1 nal) (exterper UG-20f Completed for the SA-240 S3 Stationary (Mat'l) Spec. No.) SA-789 S316 Spec. No., Grace completed for the course(s): (s) Length (ft & in.)	ube section 1803 Spec. No solution of the section o	(Indicate 19 ions. Dia., in e ambers of junctions 4 Material	60 yes or no object of the property of the pro	(internal and the c Prod 7.75" oject to pre 1" D., in. ssels or cl	omponent of test sss.) Non nannels of (b) Ove	external (s) imp - m. thk., f heat e	Jacket clos *F 1) 1.75" Nom. thk., in. 0.083 Nom. thk., in. exchangers, ngth (ft & in.):	Min. c	Corr.	Corr. A	escribe as oge np20 at test 0" ullow., in. 1794 Number 7'-5	All:	of bolt. *F at the service of the s	Welded Weldedent (weldedent Straight e (Straight e Heat Tre	or bolted)
If b 16 p. M/ 10. Im 111. H 112. Ti 133. Ti 14. Sh No. 2	ar, give dimens NWP 15 (inter pact test No ydro., pact, si 12 and 13 to be abesheet: Floating (Mat'l S abes: Mat'l 14 - 18 incl. to be ell (a) No. of Course Diameter, in. 57" ID	O 1 nal) (exterper UG-20f completed for the SA-240 S3 stationary (Mat'l) Spec. No.) SA-789 S310 Spec. No., Grace completed for the course(s): (s) Length (ft & in.) O'-10.3125"	ss. ube section 1803 Spec. No solution 1803 Spec. No solution 1803 Spec. No Spec. SA	(Indicate 19 ions. Dia., in e ambers of judgments of Judg	60 yes or no object of the property of the pro	(internal and the c Prod 7.75" ject to pre 1" D., in. ssels or cl Thickne	omponent of test sss.) Non nannels of (b) Ove ss Corr, O"	m. thk.,	Jacket clos *F 1) 1.75" Nom. thk., in. 0.083 Nom. thk., in. exchangers, ngth (ft & in.): Long, Joint (6 Full, Spot, N Spot	Min. c	Corr. ge	Corr. A - Allow., in	escribe as oge ap2(at test o" ullow., in. 1794 Number 7'-5 m. Joint (Cat. Full, Spot, Nor Spot	Alt: Alt: A. B & 8.8	If bold of F at F a	Welded Welded Machinent Straight (Straight of Straight of Stra	or bolted)
If b 9. M/ 110. Im 111. H 112. Tu 113. Tu 114. Sh 115. No. 116. 2 117. 117. No. 117. No.	ar, give dimens NWP 15 (inter pact test No ydro., pact, si 12 and 13 to be abesheet: Floating (Mat'l si 14 - 18 incl. to be all (a) No. of Course Diameter, in. 57" ID 57.75"X24"	O 1 nal) (exterper UG-20f COMPleted for the SA-240 S3 Stationary (Mat'l) Spec. No.) SA-789 S318 Spec. No., Grace completed for the completed for the completed for the course(s): (s) Length (ft & in.) O'-10.3125" 2'-6.50"	ss. ube section 1803 Spec. No solution 1803 Spec. No solution 1803 Spec. No Spec. SA	(Indicate 19 ions. Dia., in e ambers of junctions 19 ions 19 i	60 yes or no object of the property of the pro	internal and the c Prod 7.75" oject to pre 1" D., in. ssels or cl Thickne	mponent of test See See See See See See See See See Se	m. thk.,	Jacket clos *F 1) 1.75" Nom. thk., in. 0.083 Nom. thk., in. exchangers, ngth (ft & in.): Long, Joint (6 Full, Spot, N Spot Spot	Min. c	Corr. ge Eff. 85%	Corr. A - Allow., in	at test or at test or 1794 Number 7'-5 m. Joint (Cat. Full, Spot, Nor Spot Spot	Alt: Alt: A. B & 8.8	If bold of F at F a	Welded Welded authority (welded with the content of the content	or bolted)
If b 9. M/ 110. Im 111. H 112. Tu 113. Tu 114. Sh 115. No. 116. 2 117. 117. No. 117. No.	ar, give dimens AWP 15 (inter pact test No ydro., pwate, se 12 and 13 to be ibesheet: Shes: Mat'I 4 - 18 incl. to be ell (a) No. of Course Diameter, in. 57" ID 57.75"X24" 57.75X16" ads: (a)	o 1 nal) (exterper UG-20f resultable lest present completed for the SA-240 S3 stationary (Mat'l) Spec. No.) SA-789 S316 Spec. No., Grace completed for the course(s): (s) Length (fit & in.) 0'-10.3125" 2'-6.50" 3'-1.75" (Mat'l Spec.	ssube section 1803 Spec. Note that the section 1803 Spec. Note that the section 1803 Spec. Spec	(Indicate 19 ions. Dia., in e ambers of junctions 19 ions 19 i	6 yes or no 15 60 ia., in. (sulface ia., in. (su	(internal and the c Provention 1.75" oject to precent t	mponent of test ss.) Non mannels of test corr, o" o" o" o"	m. thk.	Jacket clos F T Pact tested) 1.75" Nom. thk., in. O.083 Nom. thk., in. exchangers, ngth (ft & in.): Long, Joint (C Full, Spot, N Spot Spot Spot	Min. c	Corr. ge	Corr. A - Allow., in	at test or at test or 1794 Number 7'-5 m. Joint (Cat. Full, Spot, Nor Spot Spot	Alt. Alt. Alt. Alt. B. 8. B. 8.	If bold of Fat address of Fat addres	Welded Welded authority (welded with the content of the content	or bolted)
If b 9. M/ 110. Im 111. H 112. Tu 14. Sh No. 2 1 1	ar, give dimens AWP 15 (inter pact test No ydro., phyth, et 12 and 13 to be ribesheet: S Floating (Mat'l S ribes: Mat'l 14 - 18 incl. to be ell (a) No. of Course Diameter, in. 57" ID 57.75"X24" 57.75X16" ads: (a) Location (Top,	O 1 nal) (exterper UG-20f CHUMAD. lest prese completed for t SA-240 S3 Stationary (Mat'l Spec. No.) SA-789 S318 Spec. No., Grace completed for course(s): (s) Length (ft & in.) O'-10.3125" 2'-6.50" 3'-1.75" (Mat'l Spec.	ssube section 1803 Spec. No. Spec. No. Spec. SA	(Indicate 19 ions. Dia., in e nambers of jack 4 Material //Grade or Type 1-240 T316 1-240 T316 1-240 T316 1-240 T316	O. O	(internal and the c Production 2.75" ject to preduct t	mannels or (b) Over SS Corr, O" O"	rype 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jacket clos FI) 1.75" Nom. thk., in. O.083 Nom. thk., in. exchangers. ngth (ft & in.): Long. Joint (C Full. Spot. N Spot Spot (b)	Min. c Min. c or gau Cat. A) (i)	Corr. ge Eff. 85% 85% Wat'l Sp	Corr. A Allow., in Type 1 1 1 1	escribe as oge np20 at test 0" dlow., in. 1794 Number 7'-5 m. Joint (Cat. A Full, Spot, Nor Spot Spot Spot	Alt. Alt. Alt. Alt. B. 8. B. 8.	If bold of F at a serial ure a	Welded Welded authority (welded with the content of the content	or bolted)
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If b 9. M/ 110. Im 111. H 112. Tu 14. Sh No. 2 1 1	ar, give dimens AWP 15 (inter pact test No ydro., phyth, et 12 and 13 to be ribesheet: S Floating (Mat'l S ribes: Mat'l 14 - 18 incl. to be ell (a) No. of Course Diameter, in. 57" ID 57.75"X24" 57.75X16" ads: (a) Location (Top,	O 1 nal) (exterper UG-20f CHUMAD. lest prese completed for t SA-240 S3 Stationary (Mat'l Spec. No.) SA-789 S318 Spec. No., Grace completed for course(s): (s) Length (ft & in.) O'-10.3125" 2'-6.50" 3'-1.75" (Mat'l Spec.	ssube section 1803 Spec. No. Spec. No. Spec. SA	(Indicate 19 ions. Dia., in e nambers of jack 4 Material //Grade or Type 1-240 T316 1-240 T316 1-240 T316 1-240 T316	O. O	(internal and the c Production 2.75" ject to preduct t	mannels or (b) Over SS Corr, O" O"	rype 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jacket clos FI) 1.75" Nom. thk., in. O.083 Nom. thk., in. exchangers. ngth (ft & in.): Long. Joint (C Full. Spot. N Spot Spot (b)	Min. c Min. c or gau Cat. A) (i)	Corr. ge Eff. 85% 85% 85%	Corr. A Allow., in Type 1 1 1 1 sec. No.,	at test or at test or at test or at test at test or at test for at test or at test or at test conditions in an arrow in a second	Alt: Alt: Alt: A. B & 8: 8: 8:	F at	Welded Welded of Welded attachment Straight e (Straight Temp.	or bolled)

16. MAWP	100		15 psi	at max. temp.	400 -	°F	wiin.	design metal temp.	-20	'Fal	100 1
(i	nternal) (ex	ternal)	(internal) (extern	nal)					*
17, Impact test	Mo no	r 11144-517	4						at test ten	peraiure of	-
Tr. mipaot toot	ivo pc	011/1-010	4	(Indicate ves or no at	nd the component(s) in	mnact test	ed)			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
William Bell (Mr. 1977)	- Descriptions	5 2	e 180	** Company							
18. Hydro., protein	, enser	#16. test pre	ess.	130	Proof lest -						
19. Nozzles, inspe	ection,	and safety v	valve openings	s:							
Purpose (Inlet,		Diameter	Flange	Mal			hickness	Reinforcement		tached	Location
Outlet Drain, etc	100	or Size	Type	. Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.
Inlet	1	24"	150# WN	 	SA-182 F316	0.375"	0"	-	-	UW16.1d	Channel
Outlet	1	16"	150# WN		SA-182 F316	0.375"	0''			UW16.1d	Channel
Oullet	1 1	10"	150# SO	SA-106B	SA-105	0.365"	0.0625"		UW16.1d	fig2-4(3)	Shell
Inlet	1	6"	150# SO	SA-106B.	SA-105	0.432"	0.0625"		UW16.1d	fig2-4(3)	Shell
Outlet	2	1"	150# SO.	SA-106B	SA-105	0.250"	0.0625"		UW16.1d	fig2-4(3)	Shell
Spray	1_1_	· 4"	150# LJ	SA-312 TP316	SA-403 WP316	0.237"	0"		UW16.1d	fig2-4(1)	Channel
Drain/Vent	4	0.50"	CPLG	<u>-</u>	SA-182 F316	3000#	0.0625"			UW16.1a	Tubesheel
20. Supports: Skir	l	No	Lugs	4 Le	gs -	Others		-	Attached	Welded	to shell
11:	. (Yes or No)		(No.)	(No.)	==	(Describe)	-	(Where a	
21. Manufacturer's	Partia	I Dala Rep	orts properly i	dentified and slaned b	y Commissioned Insp	ectors hav	e been fun	ished for the following	o ilems of the r	enort:	•
				ne and identifying nun					g o,	oport.	
				2							
-	-										
22. Remarks: Th	e cust	omer is re	snonsible for	the pressure relief	device per UG 125	ė	*************				
- A		7,5					Manula M	efectate all uses titles			·
					E-4220-7R , Chann						******
				& 131bL Rem No.	6 (cont.) Shell has	an expans	ion joint c	onsisting of (2) Flat	iged & Flued	Heads	
0.50" TK'X 7	2 00	X 57 ID	X 5.50 VV .								
				CEI	RTIFICATE OF SHO	OP COME	PLIANCE				•
We certi	fy that t	he stateme	ents made in I	his report are correct	and that all details of	desian ma	terial cons	truction, and workma	nchin of this va	ceal conform	In the
				on VIII, Division 1,	and that all details of	acoigii, itte	nonal, cons	and working	namp or this ve	SSEL COMOUNT	oni on
		Authorizatio	Managara and Carlotte and Carlo	18365	·	xpires		2/17	/2005		
						(e)		/ ////	1-11-11	77	
Date //	1//4	< 6003	Name Wa		hanger Corp.		Signed _	Cly 1.	Lee	<u></u>	
				(Mar	nufacturer)			(R	epresentative)		
				CE	RTIFICATE OF SH	OP INSPI	ECTION				
L the undere	anod I	voldina o ve	olid oommiosid		RTIFICATE OF SH			onnadara audika Cia			
	(F)	nolding a va	alid commissio	on issued by The Nati	onal Board of Boiler a		re Vessel Ir	300 500 F NO	te or Province		NC
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