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

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				TTOY	FARRICA	TORS	INC.,	102 SC	OUTH INDUS	TRIAL	DRIV			V GA	3075	2	
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M	snufactured for	SOFI	X CO	RP., 280	JURIVERU	OKIK	D., C		NOOGA TN		2 - 7:5	1 101	2131901 (- 11	2 26	Series de		
	cation of instal	lation S	OFIX	CORP,	2800 RIV	ERPOR	T RD		TTANOOGA	1	406	D. P. 121 24					
Lo	Cation of matar	lation _							(Name and add								
Ту	pe: VERT	ICAL			J	ACKET	`VES	SEL					00-	-155			1.16
	1000	(Horiz., vert.,	or aphere)				(Tank, se	perator, jkt. v	ressel, heat exh., etc.)			. ya wa		(MI	g's serial		P.
_	N/A	(RN)			00-155					1570						2000	
	,,	, nnj		1009	3/1999	(Drawing No	0.1		N/A	(Nat'i.	Bd. No.)		N/A		(4)	(ear built)	
AS	ME Code, Sec	tion VIII, D	iv. 1	1990	Edition and A	ddenda (date)			IN/A Code Casa	No.				cial Servic	e per UG	3-120(d)	
ns Sh		f course(s):		ngie waii 1	Vesseis, jacke			essels, sh I length (i	ell of heat exchar	4 1/2"	chamber (RADI	US)	ulti-chambei	r vesse	is.		
	on (a) 140. U	- COUIS6(8).			0,000	(0)	Overa	i iangtit ti	it & in./:		- 44			r .			rudi
	Cours	4(8)		Material		Thick	1088		Long. Joint (Cat. A)			Circum	Joint (Cat. A, B,	& C)		Heat Tr	eatment
lo.	Diameter, in.	Length (ft			Grade or Type	Nom.	Corr.	Туре	Full, Spot, None	Eff.	Тура	-	W, Spot, None	Ef		Temp.	Time
	2 3/8"		k	SA-31	2TP-304L	.187"	0	no i 🗜	NONE	70	1.	NO	ONE	70	<u>'</u>	- "	-1-1
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He	ads: (a)	, r	(Mat'l S	ipec. No., Gre	ide or Type) H.T	- Time & Ten	np.		(b)		(Mat'l S	pec. No.	., Grade or Type) H.T. —	Time & T	Temp,	
	Γ	Thickr	1086	Re	dius	trans ou	-					Side to	Pressure			Category A	
	Location (Top, Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Eliptical Ratio		onical x Angle	Hemispherical Redius	Flat Diameter	Con	vex	Concave	Туре		Spat, None	Eff.
							+	-							_	7	_
3)											_						
(b)	ovable, bolts us		PE J	ACKET	(FIG. 9-2,			J/A	(Mat'i	Spec. No., C			/ WELD		eld, ber, o	etc.)	
(b) emo			PE J	ACKET	(FIG. 9-2,			J/A							eld, bar, e	ot el	- 15 as
(b) emo	e of jacket	HALF P	PE J	ACKET	V	-304L	3)	J/A					(Describe es d	ogee & we			e or sketc
b) emo	oe of jacket	HALF P	PE J	ACKET	(FIG. 9-2,		3)	V/A	Jacket clo		ELE	BOW		If			5
Typ	pe of jacket par, give dimens WP 125	HALF P	2" SC	ACKET CH 40 S psi at	(FIG. 9-2, A-403-WP max. temp.	-304L 360	3)		Jacket clo	sure _	ELE	BOW	(Describe es d	If	bolted,		5
Typ	per of jacket per give dimensions with the line of the	HALF P	2" SC	ACKET CH 40 S psi at	(FIG. 9-2, A-403-WP max. temp.	-304L 360	3) 0	(external	Jacket clo	sure	ELE	BOW	-20	If	bolted. Fat	describe	5 p
Type of the second seco	par, give dimensus 125 (International Lands)	HALF P	2" SO	ACKET CH 40 S psi at R UHA-	(FIG. 9-2, A-403-WP max. temp.	-304L 360	O line	(external	Jacket clo	sure	ELE	BOW	(Describe es d	If	bolted. Fat	describe	or sketc
Typ	pe of jacket par, give dimens WP 125	HALF P	2" SO externel) 2T PEl	ACKET CH 40 S psi at R UHA-	(FIG. 9-2, A-403-WP max. temp. -51	-304L 360	O line	(external	Jacket clo	sure	ELE	BOW	-20	If	bolted. Fat	describe 12:	5 p
Type of the second seco	par, give dimensum 125 (International Lands)	HALF P	2" SO	ACKET CH 40 S psi at R UHA-	(FIG. 9-2, A-403-WP max. temp. -51 168 PSI	2-304L 360 (Intern	0 linc	(external	oF Mil	n. design	ELE	emp.	-20	If	bolted, F at	, describe	p. p
Type of the second seco	par, give dimensum 125 lintern pact test	HALF P	2" SO externel) 2T PEl	ACKET CH 40 S psi at R UHA-	(FIG. 9-2, A-403-WP max. temp. -51 168 PSI	-304L 360	0 linc	(external	Jacket clo	n. design	ELE	BOW	-20	If	bolted, F at	describe 12:	p. p
Type In H	par, give dimensum 125 lintern pact test ydro., pneu., o 12 and 13 to bubesheet:	HALF P	2" SO	ACKET CH 40 S psi at R UHA-	(FIG. 9-2, A-403-WP max. temp. -51 168 PSI	2-304L 360 (Intern	0 linc	(external	oF Mil	n. design	ELE	BOW	-20	If	bolted, F at	, describe	p. p
Tyr If b MA	pe of jacket par, give dimental 125 (Intermal pact test	HALF P	2" SO	ACKET CH 40 S psi at R UHA-	(FIG. 9-2, A-403-WP max. temp. -51 168 PSI ns.	2-304L 360 (Intern	0 linc	(external	Jacket clo	n. design	ELE metal te	BOW	-20	If	bolted, F at	i, describe	p. p
Type In	par, give dimensum 125 lintern pact test ydro., pneu., o 12 and 13 to bubesheet:	HALF P	2" SC - actemet) PT PE at press. ad for tu , (Mat'l Sp	ACKET CH 40 S psi at R UHA- be section	(FIG. 9-2, A-403-WP max. temp. -51 168 PSI ns.	2-304L, 360 (Intern.	0 linc	(external	Jacket closed of Minimum of Minim	n. design	ELE metal te	BOW	-20	If	bolted, F at	i, describe	5 p.
Type If the MA	per of jacket par, give dimention of the second se	HALF P sions eti	2" SC - axternel) PT PE at press. d for tu , (Mat'l Sp	ACKET CH 40 S psi at R UHA- be section c. No.)	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns	2-304L, 360 (intern	linc Pr	(external	Jacket closed of Ministry of M	n. design	ELE metal te	BOW	-20	If	bolted, F at	nt (welded or	5 p
Tyll If b	per of jacket par, give dimentum 125 [intermander test	HALF P sions If (a) EXEMI r comb. tes e complete Stationer 'I Spec. No.] Mat'l Spec	2" SC	ACKET CH 40 S psi at R UHA- be section c. No.)	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns	2-304L 360 (intern	(lincontrol presents) Proport to presents or cleans or	(external	Jacket closes or Min no and the componential Norn. thk., in. Norn. thk.	n. design	ELE metal te	BOW	-20	If	bolted, F at	nt (welded or	5 p
Tyll If b	per of jacket par, give dimentum 125 [intermander test	HALF P sions eti	2" SC	ACKET CH 40 S psi at R UHA- be section c. No.)	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns	2-304L 360 (intern	(lincontrol presents) Proport to presents or cleans or	(external	Jacket closes or Min no and the componential Norn. thk., in. Norn. thk.	n. design	ELE metal te	BOW	-20	If	bolted, F at	nt (welded or	5 p.
Type In Trans	pe of jacket par, give dimental 125 (International Part 125 (Interna	HALF P sions E XEMI r comb. tes e complete Stationer '1 Spec. No.) Mat'l Spec be complete of course(s	2" S(ACKET CH 40 S psi at R UHA- be section sec. No.)	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Dia., in.	2-304L 360 (intern	O line Proct to pres	(external	Jacket closed of Mining of	Con	Corr. Allow., in	BOW	-20 -Number	Af	F at Attachmen Typp	nt (welded or	bolted)
Tylif b	pe of jacket par, give dimental 125 (Intermal 125	HALF P sions If (a) E XEMI r comb. tes e complete Stationer (1) Spec. No.) Mat'l Spec be complete of course(s	2" S(ACKET CH 40 S psi at R UHA- be section ec. No.)	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Dia., in.	2-304L 360 (internal control of the control of th	O line Proct to pres	(external dicate pes or oof test Non nannels o	Nom. thk., in. Nom. thk. in. Nom. thk., in. Nom. thk., in. Nom. thk., in. Nom. thk., in.	Con	Corr. Allow., in	BOW	-20 -20 Number	An A	F at Attachmen Typp	nt (welded or	botted)
Tylif b	pe of jacket par, give dimental 125 (Intermal 125	HALF P sions E XEMI r comb. tes e complete - Stationen 'I Spec. No.) Mat'i Spec be complete of course(s see) Length (ft 4'-0"	2" S(ACKET CH 40 S psi at R UHA- be section ec. No.) le or Type nner chan Spec.A	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Die., in.	2-304L 360 (Intern. 2-304L 360 (Intern. 2-304L	O linc. Proceed to preserve of the core.	(external line) (external line	Nom. thk., in. Nom. thk., in. Nom. thk., in. Nom. thk. Spot, None SPOT	Con. in. or gaug	Com-	BOW	(Describe es de la companya de la co	A1 A1 85	F at Attachmen Typp	the describer of the second of	bokted)
Tylif b	pe of jacket par, give dimental 125 (Intermal 125	HALF P sions E XEMI r comb. test e complete Stationer 'I Spec. No.] Mat'l Spec be complete of course(s i(a) Length (ft 4'-0" 4'-0"	2" S(ACKET CH 40 S psi at R UHA- be section ec. No.1 e or Type nner chan SA-240 SA-240	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Die., in. Die., in. Grade or Type 0-304L 0-304L	oted vesse (b) Thickn Nom. 1/4"	O linc. Properties or city of the corr. O O O	(external licate pes or) Non nannels o li length (Nom. thk., in. Nom. thk. in. Nom. thk. Sport (Cat. A) Full, Spot, None SPOT	Con. in. or gauge	Corr. Allow., in	SOW	(Describe es de la companya de la co	A1 Eff. 85	F at Attechmen Typ	nt (welded or Heat Tre	botted)
Tylif b	pe of jacket par, give dimentum 125 [intermodulation of the content of the cont	HALF P sions E XEMI r comb. tes e complete - Stationen 'I Spec. No.) Mat'i Spec be complete of course(s see) Length (ft 4'-0"	2" S(- axternel) PT PE st press. d for tu (Mat'l Sp . No., Gred	ACKET CH 40 S psi at R UHA- be section cc. No.1 cor Type nner chan SA-240 SA-240 SA-240	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Die., in.	2-304L 360 (Intern. 2-304L 360 (Intern. 2-304L	O linc. Proceed to preserve of the core.	(external line) (external line	Nom. thk., in. Nom. thk., in. Nom. thk. f heat exchangers ft & in.): Long. Joint (Cat. A) Full, Spot, None SPOT SPOT	Con. in. or gaug	Corr. Allow., in	SOW	(Describe es de la companya de la co	A1 A1 85	F at Attechmen Typ	nt (welded or himent Heat Tremp.	botted)
If b MA	pe of jacket par, give dimental 125 (Intermal 125	HALF P sions E XEMI r comb. test e complete Stationen 'I Spec. No.] Mat'l Spec be complete of course(s sia) Length (ft 4'-0" 4'-0" 4'-0"	2" S(ACKET CH 40 S psi at R UHA- be section ec. No.) spec. No.) Spec. No. SA-240 SA-240	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Die., in. Diedo or Type 0-304L 0-304L	2-304L, 360 (intern. Dis., in. (subjected vesse) (b) Thickon Nom. 1/4" 1/4"	Ilinciano de la constanta de l	(external licate pes or) Non nannels o li length (Nom. thk., in. Nom. thk. in. Nom. thk. Sport (Cat. A) Full, Spot, None SPOT SPOT SPOT	Conin. or gauge	Corr. Allow., in 1 1 1 1 304L	SF SF	(Describe es de la companya de la co	Art	F at Attachmen Typ	nt (welded or hament — Heat Tre	botted)
If be MA	pe of jacket par, give dimentum 125 [intermodulation of the content of the cont	HALF P sions E XEMI r comb. test e complete Stationen 'I Spec. No.] Mat'l Spec be complete of course(s sia) Length (ft 4'-0" 4'-0" 4'-0"	2" S(2" S(ACKET CH 40 S psi at R UHA- be section ec. No.) spec. No. SA-240 SA-240 SA-240 SA-240	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns	2-304L, 360 (Intern. Dis., in. (subjected vesse) (b) Thickn Nom. 1/4" 1/4" 1/4" - Time & Ter	O linch linch to present to present to present corr. O O O O O O O O O O O O O O O O O O O	(external licate pes or oof test s.) Non nannels o li length (Nom. thk., in. Nom. thk., in. Nom. thk. in. Nom. thk. Sport (Cat. A) Full, Spot, None SPOT SPOT SPOT SPOT SPOT	Con	Corr. Allow., in 1 1 1 1 304L (Mat'l S	SF SF	(Describe es de la contraction	Art	F at Attack Typ Time & Ti	nt (welded or hament — Heat Tre	botted)
(b) emo	pe of jacket par, give dimentum 125 (Intermal 125	HALF P sions If the sions is t	2" S(2" S(ACKET CH 40 S psi at R UHA- be section ec. No.) spec. No. SA-240 SA-240 SA-240 SA-240 Crown	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Dia., in. Dia., in. Dia., in. Stua Knuckle	2-304L, 360 (intern. Dis., in. (subjected vesse) (b) Thickon Nom. 1/4" 1/4"	O ell) Ilino Pr O.D., in. Ols or cl Overa Corr. O O O	(external licate pes or) Non nannels o li length (Nom. thk., in. Nom. thk., in. Nom. thk. f heat exchangers ft & in.): Long. Joint (Cat. A) Full, Spot, None SPOT SPOT	Conin. or gauge	Corr. Allow., in Type 1 1 1 1 304L (Mat'l S	FU SF	(Describe es de la companya de la co	& C) Eff. 85 85 85 1H.T. — 1	F at Attachmen Typ f.	the describe to the second sec	bolted) retrient Time Eff.
Tyll If b	pe of jacket par, give dimentum 125 (Intermal 125	HALF P sions If the sions is t	2" SC	ACKET CH 40 S psi at R UHA- be section ec. No.) le or Type nner chan Spec. No. SA-240 SA-240 SA-240 Rec. No., Gr	(FIG. 9-2, A-403-WP max. temp51 168 PSI ns. Dia., in. Dia., in. Dia. dia. Dia. dia. dia. Dia. dia. dia. dia. dia. dia. dia. dia. d	2-304L, 360 (Intern. 2-304L, 3	O ell) Ilino Pr O.D., in. Ols or cl Overa Corr. O O O	(external list of test see that the see that see se	Nom. thk., in. Nom. thk., in. Nom. thk., in. Nom. thk. Spot, None SPOT SPOT SPOT SPOT SPOT SPOT SPOT SPOT	con. Leff. 85 85 85 A-240-3	Corr. Allow in Type 1 1 1 1 304L (Mat'l S	SOW Circum. J. Fu SF	(Describe es de la companya de la co	An A	F at Attachmen Typp f	the twelded or twelded	bolted)

removable, bolts used (describe other fastening)

FORM U-1 (Back)

33 Ginterma		(externel)	si at max. te	mp3	160 Internati	360 .	² °F. Mi	n. design metal temp	-20	"Fat	33/-7. psi
/. Impact test <u>E2</u>	CPEMI	T PER UH			findic	ato yes or no and t	he component(s)	impact tested]			- Lance
l. Hydro., pneu., or o	comb. te	st press.	45,	<u> </u>		of test					. Helicia in Section
. Nozzles, inspection	n, and sa	fety valve ope	nlings: 🔗		il valada r	eshe agare					S. Made are interest
Purpose (Inlet,		Diameter	Flenge	144	steriol	Nozzle	Thickness	Reinforcement	How A	tteched	Location
Outlet, Drain, etc.)	No.	or Size	Type	Nozzie	Flenge	Nom.	Corr.	Meterial	Nozzie	Flenge	(Insp. Open.)
EE ATTACHED -4 FORM		_			ļ		 		<u> </u>		<u> </u>
-4 PORWI					 		 				
					 	+	<u> </u>				
					†		1				
Supports: Skirt	NO (Yes or	Luga	(No.)	Legs .	4 (No.)	Others	- (Desc		tachedV		FO SHELL
(List the name of p J.M. HUBER I	ALF PI	number, mfg D CLOSUF PE JACKE S OF 40 1/2	s. name and CE - S/N T WAS RO	identifying BA19, A	Loumber) LUTHOR	IZATION	NO. 1005	been furnished for th	, av	-,	
U Certificate of Auti			LLOY FA	BRICAT	Expires	IC.		Signed	2002	(Representative	<u>.</u>
	described onstructe	d in this Manuted this pressur	facturer's Da re vessel in s	y the Natio LER INSI ta Report of	PECT. & on 9-1	Z , ■ E Code, Sect	Pressure Ves NCE CO ZOOC Ion VIII, Div	, and state that, to ision 1. By signing the	o the best of n	ny knowledge neither the In	s and belief, the
				_				Manufacturer's Data ny kind arising from	_		•
Date 9-21-00		gned 1	moll	Mc Authorizes/me	hum		Commission	112100	ZA GA pard incl. endorseme	Z68 nt. State, Provinc	e and No.)
				CERTIFIC	CATE OF FI	IELD ASSEMI	SLY COMPLL	ANCE		Ę	
We certify that the Code, Section VIII, I			ort are correc		•			ll parts of this vessel	conforms with	the require	ments of ASME
U Certificate of Auti	horization	No			_ Expires		· · · · · · · · · · · · · · · · · · ·		19		
Date		Name		·	(Assembl	leri		Signed		(Representative	
A Alice A A A						TELD ASSEM					
I, the undersigned, it and employed by	nolding a	valid commiss	sion issued b	y the Natio	nal Board o	of Boiler and F	ressure Ves	sel inspectors and/or	the State or P	rovince of	
	e statem	ents in this						ire vessel and state, have been inspected	9 that parts		
Inspected and subjet expressed or implied	cted to a i, concer	hydrostatic t ning the press	ed and asser est of ure vessel de	mbled this	pressure ve psi this Manuf	ssel in accor I. By signing acturer's Det	dence with a this certifica a Report, Fu	, nave been inspected ASME Code, Section to neither the Inspec rthermore, neither the ed with this inspection	VIII, Division tor nor his em e inspector no	1. The descri	bed vessel was any warranty,
Date	¢:	aned					Commissi				

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

. Manufactured for SOF					ddress of purchase	r)		
Location of installation	SOFIX CO	RP., 2800 R	IVERPORT RD.,	CHATTANOOG				
. Type: VERTIC	CAL		JACKET VI		ne and address)	00-155		**************************************
· ·	vert., or spher	0)	(tank, sep 00-155-A	parator, heat exh., etc.)		1576	(mfg's serial no.)	2000
(CRA)		(d	rawing no.)		(Nati. Bd. no.)		year built)
Data Report	v.							
Item Number	NOT	DIA/SIZE	TYPE	MATL	Remarks NOM THK	MATL	ATTACHED	LOCATION
PURPOSE	$\frac{NO}{N1}$	10"	150# RFSO	SA-182-F304L	SCH 40S	Who who	FIG UW-16.1(C)	
AGITATOR 125# STEAM IN	N2	2"	150# RFSO	SA-182-F304L	SCH 40S	-	FIG UW-16.1(C)	
125# STEAM OUT	N3	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	
EX. HEADER	N4	3"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	TOP HEAD
EX. HEADER	N5	6"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	TOP HEAD
NITROGEN IN	N6	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	TOP HEAD
TEMP	N7	1 1/2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	SHELL
FLUID	N8	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	BTM HD
LEVEL	N9	3"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	TOP HEAD
SIGHT GLASS	N10	4"	PAD FLANGE	SA-240-304L	_		FIG UW-16.1(C)	TOP HEAD
SIGHT GLASS	N11	4"	PAD FLANGE	SA-240-304L			FIG UW-16.1(C)	TOP HEAD
SAFETY VALVE	N13	3"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	TOP HEAD
MANWAY	N14	20"					FIG UW-16.1(C)	
STEAM IN	N15	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C	
STEAM OUT	N16	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C	
SPARE	N17A	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C	
SPARE	N17B	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C)	
ALKALI IN	N18	3"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C	
TOLUENE	N19	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C	
SPARE	N20	2"	150# RFSO	SA-182-F304L	SCH 40S		FIG UW-16.1(C) TOP HEAL
				IADE UP OF 2" S 15 1/2" TURNS (04L ROLLED TO	72"
				IP (INT. & EXT.				
			DEG. F @ 125 P					·
			G EXEMPT PER					
				***************************************	1			

ertificate of Authorization:	Type <u>"</u> "	U"	No. 7,25	1	Expires	4/28/		2002
ate 9-21-00	Name A	LLOY FAR	RICATORS, INC	2.	Sign	100	MOD	
ate 1-21-02	Mante						(representativ	

F.0 1564 S. 3-9581

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

Manufactured and certified by
Countries Coun
3. Location of installation 4. Types: (2) 201" SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAT9 BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BOLT CLOSURE BAZ0 N/A 1. Total Control of Installation SWING BAZ0 N/A 1. Total Control of I
A. Types (2) 20" SWING BOLT CLOSURE BA19_BA20 N/A
N/A Saster Saste
1992 ADDENDA 92 N/A N/A
Control Cont
Thickness
No. Diameters, in. Langth, it & In. Sover,Greede or Type Nom. Corr. Type Fall, Spot, None Eff. Type T
Heads: (a) SA240-304L (b) N/A (b) N/A (b) N/A (b) N/A (content of type) H.TTime & Temp. (b) N/A (content of type) H.TTime & Temp. (content of type)
Mart Spec. No., Grade or Type) H.T Time & Temp. Mart Spec. No., Grade or Type) H.T Time & Temp.
Mart Spec. No., Grade or Type) H.T Time & Temp. Mart Spec. No., Grade or Type) H.T Time & Temp.
Location (Top.) Thickness Radius Eliptical Ratio Corrical Ratio
Sotton, Endels Main. Corr. Crown Knuckte Ratio Apax Angle Radius Diameter Convex Conceve Type Full, Spot. None Eff.
(a) END 438 N/A 2:1 X S NONE 1 removable, boits used (describe other fastening) (4) 3/4 X 5 -SA 449 FYEBOLTS TYPE 1 (Mat'l Spec, No., Greder, Size, No.) **SEE REMARKS 200 (Internal) (external) (
removable, bolts used (describe other fastening) (4) 3/4 X 5 —SA 449 FYEBOLTS TYPE 1 **SEE REMARKS 200 (Internal) (Intern
MAWP 100
Impact test NO PER UHA-51 (a) NO PER UHA-51 (a) Impact test
Impact test
D. Hydro., pneu., or comb. test press.
Purpose [field, Outlet, Drain, etc.) No. Or Size Type Noztle Flange Nom. Corr. Material Nozzle Flange Nom. Corr. Material Nozzle Flange Nom. Corr. Material Nozzle Flange (inep. Open.) Purpose [field, Outlet, Drain, etc.) No. Or Size Type Nozzle Flange Nom. Corr. Material Nozzle Flange Attached Corr. Attached
Outlet, Drein, etc.) No. or Size Type Nozzie Flange Nom. Corr. Reinforcement Material Nozzie Flange (Inap. Open.) Plange Corr. Attached Attached
2. Supports: Skirt Lugs Legs Others Attached
No.) (No.) (
TEMPERATURE IS DETERMINED BY TEMPERATURE LIMITATIONS OF O-RING MATERIAL.
UG12O(c)2 DESIGN & CALCULATION BY J.M. HUBER CORPORATION. **CLOSURE ASSEMBLY IS NOT PLANT HYDROSTATICALLY TESTED.
CERTIFICATE OF SHOP/FIELD COMPLIANCE
We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to
the ASME Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No10052
U Certificate of Authorization No. 10052 Expires JULY 16 , 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION Signed Status Title Duoxily
U Certificate of Authorization No. 10052 Expires JULY 16 , 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION Signed Representative)
U Certificate of Authorization No. 10052 Expires JULY 16 , 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION Signed Frequency (Manufacturer) CERTIFICATE OF SHOP/FIELD INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TEXAS
U Certificate of Authorization No. 10052 Expires JULY 16 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION Signed Frequency (Manufacturer) CERTIFICATE OF SHOP/FIELD INSPECTION
U Certificate of Authorization No. 10052 Expires JULY 16 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION Signed Representative) CERTIFICATE OF SHOP/FIELD INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of and employed by HARTFORD STEAM BOILER INSPECTION & INSURANCE CO. OF CONNECTICUT have inspected
U Certificate of Authorization No. 10052 Expires JULY 16 , 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION [Manufacturer] Signed Signed Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Authorization in the University of the Province of Authorization in the University of the Province of Authorization issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Authorization in the University of the Pressure Vessel Inspectors and/or the State or Province of Authorization in the University of Inspector in the University of Inspector in the University of Inspector of Inspector in the University of Inspector
U Certificate of Authorization No. 10052 Expires JULY 16 19 96 Date JAN 7, 1994 Name J.M. HUBER CORPORATION Signed Representative) CERTIFICATE OF SHOP/FIELD INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Authorization and Pressure Vessel Inspectors and/or the State or Province of Authorization in Inspected the pressure Vessel part described in this Manufacturer's Data Report on 10107-194, 19 , and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his

FORM R-2 REPORT OF ALTERATION in accordance with provisions of the National Board Inspection Code

1. Work performed by ALLOY FABRICATORS, INC. (name of alteration organization)	00–155
102 SOUTH INDUSTRIAL DRIVE, TRENTON GA 30752	(Form R No.)
2. Owner SOFIX CORPORATION	
2800 RIVERPORT RD., CHATTANOOGA TN 37406	
3. Location of installation SOFIX CORPORATION	
2800 RIVERPORT RD., CHATTANOOGA TN 37406	·
4. Unit identification SWING BOLT CLOSURE Name of original manufacturer J.M.	HUBER CORP
5. Identifying nos.: BA19 - 8356K (Mattonal Board No.) (Mattonal Board No.) (furisdiction no.) (other	
6. NBIC Edition/Addenda: 1998/1999 Original Construction Code: VI	, <u>, , , , , , , , , , , , , , , , , , </u>
7. Description of work: WAS RE-RATED TO THE FOLLOWING: Output The following: The following:	
MAWP = 33 PSI & -7 PSI (EXT.) AT 360°F MAX. TEMP.	
$MDMT = -20^{\circ}F @ 33/ -7 PSI$	***************************************
ALL DESIGN FUNCTIONS PERFORMED BY AFI, PER ASME SECTION VII EDITION, 1999 AD.	I-I, 1998

Pressure Test, if appl	lied <u>45</u> psi
8. Replacement Parts. Attached are Manufacturer's Partial Data Reports or Form completed for the following items of this report: ORIGINAL "PART" NOW BEING "RE-RATED" U-2A MTR'S PARTIAL DATA	R-3s properly
ATTACHED, BY J.M. HUBER CORP., "U" CERT. AUTHORIZATION #100	
NO. BA19	
(name of part, item number, data report type, mfr's, name and identifying stamp)	
Remarks: CLOSURE WAS PULLED FROM AFI STOCK (NEW) AND INSTALLED	D IN AFI
FABRICATED JACKETED VESSEL, NB1576, SN. 00-155. CLOSURE HAD	TO BE
RE-RATED IN ORDER TO BE USED IN THIS VESSEL	
·	The state of the s

(Form R Na.)

DESIGN CERTIFICATION
I, KEVIN MOLLING, certify that to the best of my knowledge and belief the statements in this report are correct and that the Design Change described in this report conforms to the National Board Inspection Code. National Board "R" Certificate of Authorization No. R-1476 expires on 4/28 2002 Date 9/21 2000 ALLOY FABREATORS INC. Signed (authorized representative)
CERTIFICATE OF DESIGN CHANGE REVIEW
I, James R. Myhan holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Georgia and employed by H.S.B.T.I.Co. of Harthor CT have reviewed the design change as described in this report and state that to the best of my knowldge and relief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date 9-21
* CONSTRUCTION CERTIFICATION
I,
and that all material, construction, and workmanship on this Alteration conforms to the National Board Inspection Code. National Board "R" Certificate of Authorization No
and that all material, construction, and workmanship on this Alteration conforms to the National Board Inspection Code. National Board "R" Certificate of Authorization No
and that all material, construction, and workmanship on this Alteration conforms to the National Board Inspection Code. National Board "R" Certificate of Authorization No

* NO CONSTRUCTION Changes were required for Re-rating. Jun 9-21-00