FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

<i>/</i> 0 ^									ESSURE VES VIII, Division 1	1	TEM NO.
49	-03	•7	63 I	-quiito by III	p. 0 11 910					5116	-1307-15
1. Ma	anufa	ctured and	d certified by	Souther	n Heat	Excha	nger Co	orp. 400 6	5th St. E.	, Tusca	iloosa, AL
2. Ma	anufa	ctured for	E.1.	du Pont a	de Non	oves é	Co. In C	ress of purchaser)	ington, D	ر,	
3. Lo	catio	n of instal	lation <u>Æ.</u>	1. duPor	it des	Jemou	100 E CO	ne and address)	BEAUMON	T, TK	<u> </u>
4. Ty	ı	T. Exc	_	89-03-	1	(CDA)		P-2099-2	- 5790 (Nat'l. Bd.	) .no.)	1990 (year built)
5. Th	The chemical and physical properties of all parts meet the VESSEL CODE. The design, construction and workmansless					t the requir	ements of r	naterial specif	ications of the A	SME BOILE	R AND PRESSURE
VE	SSEI		he design, co	onstruction ar	nd workma	nship conf	orm to ASM	E Code, Section	n VIII, Division 1	:	(year)
(addenda (Date))				(Code	Case no.)			(spe	20(d))		
tems	6-11	inclusive t	o be comple	eted for single	wall vess	els, jackets	s of jackete	d vessels, or s	hells of heat ex	changers.	
6. Sł	s. Shell: SA-106 B			37		.125 14		(dia (D.(ft. & in.)) (le		15 -/1.876 ength (overall) (ft. & in.))	
7 54	ame.	_	c no., grade))	(nom. thi	ickness (in.))		(corr. anow. (iii	SNGL.B	SPI	oT	
7. Seams: Some Some Some Some Some Some Some Some										(no. of courses)	
8. H	8. Heads: (a) <b>SA-S16-7</b>			(mat'l. (spec. no., grade))			(b	·)	(mat'l. (spec. no., grade))		
		ation (top. tom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a	-	strom	-3125"	.125"	(2)S€T	s 28°0	.O. FUSA	16ED & Ple	ied Head	\$	FLAT
(b		vabie bolt	s used (desc	ribe other fas	tenings):	LINE	门.				
						loot:		(mat'l., s	pec. no., gr., size, no	.)	
-	•	f jacket: closure:	None None		Proof t	ar, give din	nensions:			_ If bolted,	describe or sketch
11. M	AWP	: 75		p. 400 .		n metal tem	p.: <u>/</u>	_at	. Hydro., <b>河水火</b> 丸	<b>XXXXXXX</b> test (	pressure //S
tems	12 aı	nd 13 to b	e completed	for tube sect	tions.					,	<b>^</b>
12 T	back	5	A-240-3	3166	18"		1.81	25"	0	W	ELDED.
12. 1	1063,	(stati	ionary mat'l. (spe	ec. no., gr.)) (dia.	(in.) (subject	to pressure))	(nom. thic	ckness (in.))	(corr. allow. (in	.)) (atta	chment (welded, bolted))
		(floa	ating mat'l. (spec		(dia. (in	.))	(nom. thic	kness (in.))	(corr. allow. (in	.» C	(attachment)
13. T	ubes:		9-316L (spec. no., gr.))		750 4 (OD (in.))	(non	n. thickness <del>(im</del>	e gauge))	(no.)	<u>اک</u>	type (straight or U))
items	14-1	7 inclusive	e to be comp	leted for inne	er chamber	s of jacket	ed vessels	or channels of	f heat exchange	rs.	
14. S	hell:	54-24	0-316L	25	0 u		0		1-1.50 (dia. ID (ft. & in.))	<u>''</u>	-6.375
		(mat'l. (s	spec. no., gr.))	(nom. t	hickness (in ))	م/ _	(corr. allow. (	in.)) - Salle L.)		(len	gtn (overall) (it. a. iii.))
15. S	eams	i:(long	(dbl., sngl.))	(RT (spot or fu	ull)) (eff. (	(%)) (HT terr	np. (°F)) (tim	e) (girth (dbl	. sngl.)) (RT (spot	, partial, or full))	(no. of courses)
16. H	eads	: (a) <b>SA</b>	-240-3	(mat'l. (spec. no., grade))			(t	o)	(mat'l. (spec. no., grade))		
		cation (top, ttom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
	rTo	P/BOTTO	m.250°	٥			2:1		4		CONCAVE
<u>(t</u>		ovable, bol	ts used (des	Lcribe other fas	stenings):	SA-10	13-B7	(24) EA.	5/8 v_//. spec. no., gr., size, no.	0.)	-
17. ħ	<b>A</b> AWF	p: <u>225</u> (psi)	_at max. ten	np. 400	. Min desig	n metal tem	np.: /5	at 22.5 (psi)	. Hydro., <b>ኢካ</b> ጵኒ		pressure 3 1/0 (psi)

18. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	Number	Dia. or Siz	еТуре	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location			
IN-DUT	1-1	4-15	D" REWA	S-106 B	,337"	INHERENT	WELDING	SHELL			
12	ľ	44-30	O# 11	X1-312-316	. , 237 4	ં લ	4	Bonnet			
OUT	2.	3 4 - 4	, U	,	.216"	. <i>U</i>	V	U			
4N	,	14- 4	<del></del>	- 4	1/334	ч	И	4			
YENT		16-4	<u>, n</u>	и	./334	v	4	<u>"</u>			
								<b></b> i			
	·										
	i			ļ			<del> </del>				
19. Supports: Skirt Log Lugs 4 Legs Other Attached Ster, were Mere and how)											
(yes or no) (no.) (no.) (describe) (where and how)											
20. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the											
following items of the report:											
(name of part, item number, mfr's, name and identifying stamp)											
"14-46(C)	19-20(+	<u> </u>									
		CE	RTIFICATE OF	SHOP COM	IDI IANCE						
We certify that the statemer	nts made in thi					aterial constructi	on and workma	nship of this			
vessel conform to the ASM	E Code for Pre	ssure Ves	sels Section \	VIII. Division	1.	- 1	/				
"U" Certificate of Authoriza	tion no. 70	37 6	expires Feb.	28 19	91	(م	1 01/				
"U" Certificate of Authoriza Date 04-20-90 Na	me South	ern He	at Exchar	nger Cor	p.	Signed	inel to	Noland			
			(manufact	turer)			(replesentati	ve)			
			RTIFICATE O				_				
Vessel constructed by Southern Heat Exchanger Corporation at Tuscaloosa, AL											
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or prov-											
ince of	_and employed	d by Co	mmercial	Union Ir	nsurance	Co.					
		of <b>Bosto</b>	n, MA h	ave inspecte	d the pressure	e vessel described	in this Manufa	cturers' Data			
Report on 04-20					nowledge and	belief, the manufa	cturer has con	structed this			
pressure vessel in accordan							acraine the are	SOUTO VOSCOL			
By signing this certificate no described in the Manufactur											
sonal injury or property dan							e ili aliy ilialille	i ioi ally per-			
Date 04-20-90 Signe		120	ansing non		ommissions	110cutc 1	NY 2182				
4/23/40 BM3	- perf	(Authorized	Inspector) B.	M. Bro		(Nat'l. Bd. (incl. ende	orsements) state, pro	ov. and no.)			
7/ 1/		CERTIFIC			Y COMPLIANO	CE					
We certify that the field ass	embly constru						ection VIII, Divi	sion 1 of the			
ASME BOILER AND PRESS						•					
"U" Certificate of Authoriza	ition no		expires	, 19							
DateName	e	(aaaamblas the	at certified and cor	naturated field or	combly	Signed	(representativ	<u></u>			
							(representativ				
					Y INSPECTIO						
i, the undersigned, holding a				nal Board of	Boiler and Pres	ssure Vessel Insp	ectors and the s	tate or prov-			
ince ofand employed by											
Depart with the described of											
	Report with the described pressure vessel and state that parts referred to as data items, not included in the										
certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief, the manufacturer has con-											
structed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test ofpsi.											
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel											
described in the Manufacturers' Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any per-											
sonal injury or property damage or a loss of any kind arising from or connected with this inspection.											
Date Signed Commissions											
		(Authorize	d Inspector)			(Nat'l. Bd. (incl. endo	orsements) state, pro	v. and no.)			