SHE JOB NO.

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

as required by the provisions of the ASME Code rules, Section VIII, Division 1

ITEM NO.

87	-2	24

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пъ	~		١.	,

	anufactured and c					•			ABAMA	
	anufactured for									
3. Lc	ocation of installa	tion No	RAMCO/G	BLAKE	<u>ή Δη</u>	HENS, G	and address)			
	pe: HDRIZ. Ly.	r	070-4		אסאב	(,iaii)	- 1544	4901		1987
	(110112: 01 10:11		•							
5. TI VI	ne chemical and p ESSEL CODE. The	hysical pro design, co	perties of all p instruction and	arts meet I workman	the require ship confor	ments of ma m to ASME	aterial specific Code, Section	cations of the A n VIII, Division 1	SME BOILER	1986 (year)
	A & Caddenda (Date		(Code C	ase no.)			(spec	ial service per UG-12	O(d))	
ome	6-11 inclusive to							hells of heat ex	changers.	
ems		<i>De 60111</i> , p.10	203	٠ ا		Diaza u		1-5.25	1'-	11.750 "
6. S	hell: <u>SA - S3 B</u> (mat'l. (spec	no., grade))	• 7 / c	kness (in.))	(0	corr. allow. (in.)	· .	(dia. ID (ft. & in.))	(lengti	n (overall) (ft. & in.))
7. S	eams: SMUS.		(PT (enot or full))	100%	(HT temp. (*	F)) (time)	(girth (dbl.,	sngi.)) (RT(spot,	partial, or full))	(no. of courses)
			(iii (spot or idit))	(2 (.0//	,					
8. H	eads: (a)		(mat'l. (spec. no	o., grade))		(5)		(mat'l. (spec	c. no., grade))	
	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Eliiptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(E	1)									
(t										
10. J	ype of jacket NONE acket closure NONE NAWP 100	describe as or	nee & weld bar, etc	II Da	ar, give unit	ensions			_ If bolted,	describe or sketch
tem:	s 12 and 13 to be	completed	for tube secti	ions.					Kli	el De D
12. 1	ubesheets: SA -	240 -310 nary mat'l (spe	ec no.gr)) (dia	21.75 (in) (subject	to pressure)	(nom thick	kness (in.))	(corr. allow. (iii		6 UK - 13.2(J) achment (welded, bolted)
	-						kness (in))	(corr. allow. (i	n.))	(attachment)
	,	-	c 110 : gr 1/	150"		16		268		TRAIGHT
		pec no.gr))		OD (in))		thickness (ma		(no.)	ers.	type (straight or U))
item	s 14-17 inclusive	to be comp	oletea for inne	r chamber	S OF Jackett	-U VE336/3 (or criaminoro c	ا د د د ا	1	1-10.625
14.	Shell: 5A - 240	-3161	. 75	າວັ		Corr allow (i	n.\\	(dia 1D (ft. & in.))	(lei	ngth (overall) (ft. & in.))
			(nom t)	hickness (in))	· •/	(COIT ATTOW (I	 TOQ1	Bast -	•••	2
15.	Seams: DBL.	bi sngl)	(RT (spot or *u	/O/ (eff)	(%)) (HT tem	p (°F)) (tim	e) (girth (dt	il., sngl.)) (RT (spo	ot, partial, or full)) (no. of courses)
16.	Heads: (a) SA-	240-310	(mat'l (spec	no , grade))		(t))	(mat'l. (sp	ec. no., grade))	
	Location (top. bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
Γ	(a) ENDS	.250"	0			2:1			_	CONCOME
	(b)						1 - 0	1	<u> </u>	
	If removable, bolt	s used (des	cribe other fas	stenings):	SA - 19	3~87 (2	<u>(4-) €3 .⊃/.</u> (mat'l.	spec no. gr., size,	no.)	
	·····slop/E/		emp. 150	Min. tei	mn ·			Hydro.		press: 150
17.	MAWP (psi)		(°F)		(°F	(when less tha	n - 20°F))	·, pr		psi
Iten	ns on reverse side	to be con	npleted for all	vessels w	nere applic	adie.	ion and tha A	,		

18. Nozzles, inspection and safety valve openings: Reinforcement How Purpose (inlet. Nom outlet, drain, etc. Number Dia. or Size Type Thickness Material ttached 337 ª NHEREAT .106 B IN-OUT SA •311*•*34 216" u DUT 544 ν QUT 133 u)ROIN u 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) " UG-46(a)" CERTIFICATE OF SHOP COMPLIANCE We certify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1 "U" Certificate of Authorization no. 7037 expires FEB. 28, 19 88 Date //- 6-87 Name SOUTHERN HEAT EXCHANGER CORPORATION Signed CERTIFICATE OF SHOP INSPECTION TUSCALOOSA, ALABAMA Vessel constructed by SOUTHERN HEAT EXCHANGER CORPORATION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ______ and employed by COMMERCIAL UNION INSURANCE COMPANY of BOSTON, MASS, have inspected the pressure vessel described in this Manufacturers' Data , 1987 , and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. 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 personal injury or property damage or a toss of any kind arising from or connected with this inspection.

Date / - Signed Commissions NB 5446

(Authorized Inspector) B. M. BROOKS (Nat') Box Commissions NB 5446 NY 2182 (Nat'l Bd (incl endorsements) state, prov and no.) CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII. Division 1 of the ASME BOILER AND PRESSURE VESSEL CODE. "U" Certificate of Authorization no. _____expires _____, 19_____ (assembler that certified and constructed field assembly) CERTIFICATE OF FIELD ASSEMBLY INSPECTION ____and employed by of

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or provhave compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items______ certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief, the manufacturer has constructed 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 of_ 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 personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions (Nat'l. Bd. (incl. endorsements) state, prov. and no.) (Authorized Inspector)