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If removable, bolts used (describe other fastening)

Corrected copy

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS S.H.E. Order# Item no. 10-0246A As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 HX1019 1. Manufactured and certified by Southern Heat Exchanger Corporation 6100 Old Montgomery Highway Tuscaloosa, AL (Name and address of Manufacturer) Southern Company Services Birmingham, AL (Name and address of Purchaser) Mississippi Power, Dekalb, MS 3. Location of installation (Name and address) Heat Exchanger 2011 4. Type Horizontal 10-0246A None SB- 7331-3 13799 (Tank, separator, ikt. vessel, heat exh.etc.) (CRN) (Horiz, vert, or sphere) (mfg. serial no.) (Drawing No.) (Natl. Bd. No.) (Year built) None 2007, A09 5. ASME Code, Section VIII.Div. 1 None Edition and Addenda(date) Code Case No. Special Service per UG-120(d) Items 6 - 11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels 19'-11 7/8" 6. Shell (a) No. of course(s): (b) Overall length (ft & in): Course(s) Material Thickness Long Joint (Cat. A) Circum.Joint(Cat. A,B,&C) Heat Treatment No. Diameter, in. Length (ft & in) Spec/Grade or Type Corr. Full, Spot, None Type |Full,Spot,None Eff. Temp. Nom. Type Eff. Time 1 39 " 10'-0" SA-516 GR. 70 85% 1/2" 1/8" Spot Spot 85% 1 1 39" 1 9'-9 3/8" SA-516 GR. 70 1/2" 1/8" 85% 85% 1 Spot Spot 7. Heads: (a) None (Mat'l Spec. No , Grade or Type) H.T.- Time & Temp (Mat'l Spec. No., Grade or Type) H.T.- Time & Temp Location (Top, Thickness Radius Elliptical Conical Hemisoherica Flat Side to Pressure Category A Bottom, Ends) Min. Corr. Crown Knuckle Ratio Apex Angle Radius Diameter Convex Concave Type Full, Spot, None Eff. (a) (b) If removable, bolts used (describe other fastening) N/A (Mat'l. Spec. No., Grade, size, no.) 8. Type of jacket None Jacket closure (Describe as ogee & weld, bar, etc.) If bar, give dimensions None If bolted, describe or sketch. N/A ° F. 9. MAWP 150 N/A 145 Min. design metal temp. °F. at 150 psi osi at max temp (internal) (internal) (external) (external) 10. Impact test No per UCS-66, UHA-51 (Indicate yes or no and the component(s) impact tested) 11. Hydro., pneu., or comb. test press. 195 psig hydro Proof test Items 12 and 13 to be completed for tube sections SA-240 316L 39" 1 5/16" 0" Welded 12 Tubesheet: Stationary (Mat'l. Spec. No.) Dia., in. (subject to pressure) Corr. Allow., in. Attachment (welded or bolted) Nom. thk., in. N/A Floating (Mat'l. Spec. No.) Dia., in. Nom. thk., in. Corr. Allow., in. Attachment 3/4" 13. Tubes SA-249 316L 16 BWG. 1342 Straight Nom. thk., in. or gauge Type (Straight or U) Mat'l. Spec. No., Grade or Type O.D., in. Number Items 14 - 18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers. 14. Shell (a) No. of course(s): 2 (b) Overall length (ft & in): Course(s) Material Thickness Long Joint (Cat. A) Circum.Joint(Cat. A,B,&C) Heat Treatment Type No. Diameter, in. Length (ft & in) Spec/Grade or Type Nom. Corr. Full, Spot, None Eff. Type Full, Spot, None Eff. Temp. Time 1 39 " 3'-4 1/2" SA-240 316L 1/2" 0" 85% 85% 1 Spot Spot 1 39 " 1 3'-4 1/2" SA-240 316L 1/2" 0" 85% Spot 85% Spot SA-516 GR. 70 SA-516 GR. 70 15. Heads: (Mat'l Spec. No., Grade or Type) H.T.- Time & Temp (Mat'l Spec. No., Grade or Type) H.T.- Time & Temp Location (Top, Elliptical Conical Thickness Radius Hemispherical Side to Pressure Category A Crown Knuckle Bottom, Ends) Ratio Full, Spot, None Min. Corr. Apex Angle Diameter Convex Concave Eff. Type (Overlay not included in thickness) 44 5/8" End 3 1/4 0" N/A None (a) 3 1/4" 0" (Overlay not included in thickness) 44 5/8" N/A (b) None SA-193-B7(40) ea 1 " dia.

16. MAWP 35	5 1	N/A	psi at m	ax. temp.	210	N/A ° F.	Min. desig	n metal	temp. 10	° F.	at <u>355</u>	psi
(inter		xtemal)	00-887-20 T-00943-20	- 1/2.	internal)	(external)						
17. Impact test	No	per UCS	-66, UI	HA-51								
18. Hydro., pneu.,	or comb	test nres	9	465 ps	(Indica	te yes or no and th ro Proof te	25	ent(s) im	pact tested)			
19.Nozzles, inspe			_		ng nya	Troor to	- Managan		<	(U	IW-16.1)	
	Purpose (inlet, Diameter Flange Material							e Thk.	Reinforcement	7	v Attached	Location
Outlet, Drain, etc.			. ]	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Opn.)		
Inlet	1	20"	300#	SA-240 316L		SA-182 F 316L	0.375"	0"	SA-240 316L	е	RFWN	
Outlet	1	20"	300#	SA-240 316L		SA-182 F 316L	0.375"	0"	SA-240 316L	е	RFWN	
Drain	1	2"	300#	SA-312 316L		SA-182 F 316L	0.154"	0"	Inherent	e	RFWN	
Vent	1	2"	300#	SA-312 316L		SA-182 F 316L		0"	Inherent	е	RFWN	
Inlet/Outlet	2	10 "	150#	SA-106 GR. B		SA-105	0.5"	1/8"	Inherent	е	FFWN	
			$\vdash$				_	-		-		
20 Cupparts Chir		No	Lugs	N/A Leg		N/A Other	' '	N Cade	dles Attach	nd	Shell, W	olded
20. Supports: Skir	20. Supports: Skirt No Lugs N/A Legs N/A Others (2) Saddles Attached Shell, Welded (Yes or No) (No.) (No.) (Describe) (Where and How)											
21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:												
(List the name of part, item number, mfg's. name and identifying number)												
(List the name of part, item number, mig's, name and identifying number)												
22. Remarks:												
(2) WN Type Body Flanges, SA-182 F 316L, 44 5/8" O.D. X 38" I.D. X 5 3/8" THK.												
						ATE OF SHOP			A			
						I that all details of o	lesign, ma	terial, co	onstruction, and w	orkmansl	nip of this ves	sel
conform to the				essels, Section					. 1			0
U Certificate	of Autho	orization N	lo		7037		Expires	11/2	29		, ,2011	11
12:01 (1/2 (1												
Date 05/10/2013 Name Southern Heat Exchanger Corporation Signed												
(Manufacturer) (Representative)  CERTIFICATE OF SHOP INSPECTION												
I the wadowien	ad bald	lian a valid				tional Board of Boil				ad the C	toto or Provin	on of Al
		ing a valid	commiss			nonal Board of Boll America	er and Pre	ssure v		nn, Ma		inspected
and employed to the pressure ve	****	aribad in th	nie Manu				20 1	1 and	state that, to the b			
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from or connec				inprojer snoir	oc naoic	and any manner for	an, porce	no. Ingon	, or proporty dame	go o, a .		
		uno mopoo		1	1	nn-						
Date .5./	0.13	3 Sign	ed	A W	OW	4	Corr	missio	ns NB11166	ABN	AL10	537BL
				(Auth	nonized I	rispector)	_		Board incl. endor		State, Province	ce and No.)
CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE												
We certify that	the state	ements on t	his repor	rt are correct a	nd that	the field assembly	construction	n of all	parts of this vesse	1 conform	ns with the rec	quirements
of ASME Code,	Section	VIII, Divisi	on 1,									1
U Certificate	of Autho	orization N	lo				Expires				,20	
									4			
Date Name Signed												
						sembler)				(Repre	esentative)	
						F FIELD ASSE				20.00		
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 of												
have compared the statements in this Manufacturer's Data 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 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 psi. By signing this certificate neither the Inspector nor												
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						ning the pressure v						
					i be liab	le in any manner fo	r any pers	onai inju	iry or property dan	rage or a	1088 01	
any kind arising	irom or	connected	with this	inspection.								
Date		Sign	ed					Comm				
(Authorized Inspector) (Nat'l Board incl. endorsement,								ment, Stat	e, Province and	No.)		