

1 Manufactured and certified by Southern Heat Exchanger Corporation 6100 Old Montgomery Highway Tuscaloosa, AL
(Name and address of Manufacturer)
2 Manufactured for Southern Company Services Birmingham, AL
(Name and address of Purchaser)
3 Location of installation Mississippi Power, Dekalb, MS
(Name and address)
4 Type Horizontal Heat Exchanger 10-0246B None SB- 7331-3 13800 2011
(Horz,vert, or sphere) (Tank,separator,jkt vessel,heat exh,etc) (mfg serial no) (CRN) (Drawing No) (Natl Bd No) (Year built)
5 ASME Code, Section VIII, Div 1 2007, A09 None 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
6-Shell (a) No of course(s) 2 (b) Overall length (ft & in) 19'-11 7/8"

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		Nom	Corr	Type	Full,Spot, None	Eff	Type	Full,Spot, None	Eff	Temp	Time
1	39 "	10'-0"	SA-516 GR 70		1/2"	1/8"	1	Spot	85%	1	Spot	85%	-	
1	39 "	9'-9 3/8"	SA-516 GR 70		1/2"	1/8"	1	Spot	85%	1	Spot	85%	-	
													-	

7 Heads (a) None (b) 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, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min	Corr	Crown	Knuckle					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 None
(Describe as ogee & weld, bar, etc)

If bar, give dimensions None If bolted, describe or sketch
9 MAWP 150 N/A psi at max temp 145 N/A ° F Min design metal temp 10 ° F at 150 psi
(internal) (external) (internal) (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 None

Items 12 and 13 to be completed for tube sections

12 Tubesheet SA-240 316L 39 " 1 5/16" 0" Welded
Stationary (Mat'l Spec No) Dia, in (subject to pressure) Nom thk, in Corr Allow, in Attachment (welded or bolted)
N/A
Floating (Mat'l Spec No) Dia, in Nom thk, in Corr Allow, in Attachment
13 Tubes SA-249 316L 3/4" 16 BWG 1342 Straight
Mat'l Spec No, Grade or Type O D, in Nom thk, in or gauge Number Type (Straight or U)

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) 7'-7 1/2"

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		Nom	Corr	Type	Full,Spot, None	Eff	Type	Full,Spot, None	Eff	Temp	Time
1	39 "	3'-4 1/2"	SA-240 316L		1/2"	0"	1	Spot	85%	1	Spot	85%	-	
1	39 "	3'-4 1/2"	SA-240 316L		1/2"	0"	1	Spot	85%	1	Spot	85%	-	
													-	

15 Heads (a) SA-516 GR 70 (b) SA-516 GR 70
(Mat'l Spec No, Grade or Type) H T - Time & Temp (Mat'l Spec No, Grade or Type) H T - Time & Temp

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min	Corr	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff
(a)	End	3 1/4"	0"	(Overlay not included in thickness)					44 5/8"			N/A	None	-
(b)	End	3 1/4"	0"	(Overlay not included in thickness)					44 5/8"			N/A	None	-

If removable, bolts used (describe other fastening) SA-193-B7(40) ea 1 " dia
(Mat'l Spec No, Grade, size, no)



16 MAWP 355 N/A psi at max temp. 210 N/A ° F Min design metal temp 10 ° F at 355 psi
(internal) (external) (internal) (external)

17 Impact test No per UCS-66, UHA-51

(Indicate yes or no and the component(s) impact tested)

18 Hydro, pneu, or comb test press 465 - psig hydro Proof test

19 Nozzles, inspection, and safety valve openings

(UW-16 1)

Purpose (inlet, Outlet, Drain, etc)	No	Diameter or size	Flange Type	Material		Nozzle Thk		Reinforcement Material	How Attached		Location (Insp Opn.)
				Nozzle	Flange	Nom	Corr		Nozzle	Flange	
Inlet	1	20"	300#	SA-240 316L	SA-182 F 316L	0 375"	0"	SA-240 316L	e	RFWN	
Outlet	1	20"	300#	SA-240 316L	SA-182 F 316L	0 375"	0"	SA-240 316L	e	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	0 154"	0"	Inherent	e	RFWN	
Inlet/Outlet	2	10"	150#	SA-106 GR B	SA-105	0 5"	1/8"	Inherent	e	FFWN	

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)

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

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 11/29, 2011

Date 05/10/2013 Name Southern Heat Exchanger Corporation

(Manufacturer)

Signed

(Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of AL and employed by One Beacon America of Lynn, Ma have inspected the pressure vessel described in this Manufacturer's Data Report on 07/13, 20 11, 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 this Manufacturer's 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.

Date 5.10.13 Signed

(Authorized Inspector)

Commissions NB11166ABN

AL10537BL

(Nat'l Board incl endorsement, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1,

U Certificate of Authorization No _____ Expires _____, 20 _____

Date _____ Name _____

(Assembler)

Signed _____

(Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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 his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's 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.

Date _____ Signed

(Authorized Inspector)

Commissions _____

(Nat'l Board incl endorsement, State, Province and No.)

