

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.

89-345

9-45-50007.00

- Manufactured and certified by SOUTHERN HEAT EXCHANGER CORP. 400 65TH ST. E. TUSCALOOSA, AL.
(name and address of manufacturer)
 - Manufactured for PARSONS & WHITEHORE AL. NEWSPRINT CONST. CORP. CLAIRBORNE, AL.
(name and address of purchaser)
 - Location of installation LINE 1.
(name and address)
 - Type: HT. EXCH. 89-345 - SP-2229-2 5825 1990
(horiz. or vert. tank) (mfr's. serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
 - The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction and workmanship conform to ASME Code, Section VIII, Division 1: 1989
(year)
- _____ (addenda (Date)) _____ (Code Case no.) _____ (special service per UG-120(d))

Items 6-11 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

- Shell: SA-240-316L .250" 0 1'-7.250" 19'-11.750"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
- Seams: SINGL. BUTT SPOT 85% - - SINGL. BUTT - 3
(long. (dbl., singl.)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time) (girth (dbl., singl.)) (RT (spot, partial, or full)) (no. of courses)
- Heads: (a) - (mat'l. (spec. no., grade)) (b) - (mat'l. (spec. 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)
(a)										
(b)										

If removable, bolts used (describe other fastenings): _____

(mat'l. spec. no., gr. size, no.)

- Type of jacket: NONE Proof test: _____
- Jacket closure: U If bar, give dimensions: _____ If bolted, describe or sketch.
(describe as ogee & weld, bar, etc.)
- MAWP: 150 at max. temp. 300 Min design metal temp.: 40 at 150 Hydro. pressure test pressure 225
(psi) (°F) (°F) (psi)

Items 12 and 13 to be completed for tube sections.

- Tubesheets: SA-240-316L .20" 1" 0 WELDED
(stationary mat'l. (spec. no., gr.)) (dia. (in.) (subject to pressure)) (nom. thickness (in.)) (corr. allow. (in.)) (attachment)
- Tubes: SA-240-316L .750" 1B 284 STRAIGHT
(mat'l. spec. no., gr.)) (OD (in.)) (nom. thickness (in. gauge)) (no.) (type (straight or U))

Items 14-17 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

- Shell: SA-240-316L .250" 0 1'-7.50" 1'-0.750"
(mat'l. spec. no., gr.)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
- Seams: SINGL. BUTT SPOT 85% - - - - 2
(long. (dbl., singl.)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time) (girth (dbl., singl.)) (RT (spot, partial, or full)) (no. of courses)
- Heads: (a) SA-516-70 (mat'l. (spec. no., grade)) (b) SA-240-316L (LINERS for (a)) (mat'l. (spec. 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)
(a)	<u>ENDS</u>	<u>1.50"</u>	<u>0</u>						<u>23.750"</u>	<u>FLAT</u>
(b)		<u>.1875"</u>	<u>0</u>						<u>24.50"</u>	<u>"</u>

If removable, bolts used (describe other fastenings): SA-193-B7 (28) EA. 5/8"-11.

(mat'l. spec. no., gr. size, no.)

- MAWP: 30 at max. temp. 300 Min design metal temp.: 40 at 150 Hydro. pressure test pressure 225
(psi) (°F) (°F) (psi)