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PO# 1C8-1944-C-M003
Job No. 15431

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

14"- 424 SqFt
FTSX

1 Manufactured and certified by Perry Products Corporation 25 Mt. Laurel Road, Hainesport, NJ 08036
(Name and address of Manufacturer)

2 Manufactured for McNeil Specialty Products Company, Highway 43 & Industrial Highway, McIntosh, AL 36553
(Name and address of Purchaser)

3 Location of installation Same
(Name and address)

4 Type Horizontal Heat Exchanger B-5804 D-98458 Rev. 2 5743 1999
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5 ASME Code, Section VIII, Div. 1 1995-97A --- ---
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): 4 (b) Overall length (ft & in.): 15'- 11 3/4"

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	14"	10'- 3 3/4"	SA-53 GrB		.312"	1/8"	E	None	85%	1	None	70%	---	---
2	(See below)	3 1.2"	Expansion Joint (See Below)		---	---	---	---	---	---	---	---	---	---
1	14"	5'- 1"	SA-53 GrB		.312"	1/8"	E	None	85%	1	None	70%	---	---

7 Heads: (a) Expansion Joint SA-516 Gr70 (b) ---
(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) Center	25"	.1115"	---	3/4"	---	Flanged and	flued heads	---	---	---	S	None	65%
(b)						14" OD	x 24" OD						

If removable, bolts used (describe other fastening) ---
(Mat'l Spec. No., Grade, size, No.)

8 Type of jacket --- Jacket closure ---
(Describe as ogee, flange, bar, etc.)

If bar, give dimensions --- If bolted, describe or sketch

9 MAWP 100 --- psi at max. temp. 350 --- °F. Min. design metal temp. 20 --- °F at 100 psi.
(internal) (external) (internal) (external)

10 Impact test No per Code paragraphs UG-20 (f), UCS-66(a) and UHA-51(d)(e).
(Indicate yes or no and the component(s) impact tested)

11 Hydro., pneu. or comb. test press. 150 Proof test ---

Items 12 and 13 to be completed for tube sections.

12 Tubesheet SA-240 Tp304L 14" 1-1/8" 0 Welded
Stationary (Mat'l Spec. No.) Dia., in. (subject to press.) Nom. thk., in. Corr. Allow., in. Attachment (welded or bolted)
Body Flg. SA-516 Gr70 14-1/8" ID x 18-1/8" OD 1-1/4" 0 Retained by tubesheet
Floating (Mat'l Spec. No.) Dia., in. Nom. thk., in. Corr. Allow., in. Attachment

13 Tubes SA-249 TP304L 3/4" 18 GA. 136 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): 1/1 (b) Overall length (ft & in.): 1 @ 6" Lg. & 1 @ 10" Lg.

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	14"	6'	SA-240 Tp304L		3/16"	0	1	None	70%	1	None	70%	---	---
1	14"	10'	SA-240 Tp304L		3/16"	0	1	None	70%	1	None	70%	---	---

15 Heads: (a) SA-240 Tp304L (b) SA-240 Tp304L
(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	0.952"	0	14"	7.8"	---	---	---	---	---	Yes	S	None	85%
(b) End	0.952"	0	14"	7.8"	---	---	---	---	---	Yes	S	None	85%

If removable, bolts used (describe other fastening) SA-193 GrB7, 5/8" Dia. x 6" Lg., (24)
(Mat'l Spec. No., Grade, Size, No.) RR 1026.10

Date	Signed	Commissions
	(Authorized Inspector)	(Nat'l Board incl. endorsement, State, Province and No.)