

1. Manufactured and certified by E. L. Nickell Company, Inc. 635 Franklin Street Constantine MI 49042
 (Name and address of Manufacturer)
 2. Manufactured for A C & R Specialists 623 Jackson Sioux City IA 51105 PO#13421
 (Name and address of Purchaser)
 3. Location of installation Tropicana Products Inc. Bradenton FL 34208
 (Name and address)
 4. Type: Horizontal S & T Chiller 42567 N/A REV. 0
 (Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exh., etc.) (Mfg's serial No.) (C/N) (Drawing No.) (Natl. Bd. No.) (Year)
 5. ASME Code, Section VIII, Div. 1 1989, 12-31-91 N/A For low temperature service
 Edition and Addenda (date) Code Case No. Special Service per UG-120(a)

Items 6 - 11 incl. to be completed for single shell jacketed vessels, shell of heat exchangers, or vessels with double chamber vessels.
 6. Shell (a) No. of course(s): 5 (b) Overall length (ft & in.): 20'-0"

Course(s) No.	I. D.		Material Spec./Grade or Type	Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treat. Temp.
	Diameter, in.	Length (ft & in.)		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	
1	42 1/2"	32 3/4"	SA-516-70	5/16	0	2	Spot	80	2	None	65	
2, 3	"	6"	"	"	"	"	"	"	"	"	"	"
5	"	96"	"	"	"	"	"	"	"	"	"	"

Heads: (a) _____ (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 Type: Full, Spot, None
	Min.	Corr.	Crown	Knuckle					Convex	Concave	
(a)											
(b)											

If removable, bolts used (describe other fastening) _____ (Mat'l Spec. No., Grade, size, No.)
 Type of jacket _____ Jacket closure _____ (Describe as open & weld, bar, etc.)

If bar, give dimensions _____ If bolted, size _____
 9. MAWP 150 psi at max. temp. ±200 °F Min. design metal temp. -40 °F at _____
 (internal) (external) (internal) (external)

10. Impact test Impact exempt per UCS-66(a) & UCS-66(b)
 (Indicate yes or no and the component(s) impact tested) Yes (per UCS-66(a) & (b))
 11. Hydro. pneu. test press. 188 Proof test N/A

Items 12 and 13 to be completed for tube sections.
 12. Tubesheet: SA-516-70 42 1/2" 1 1/2" 0 Welded
 Stationary (Mat'l Spec. No.) Dia, in. (subject to press.) Nom. thk., in. Corr. Allow., in. Attachment (welded or other)

13. Tubes: SA-214 1 1/4" 13 GA 637 Straight
 Floating (Mat'l Spec. No.) Dia., in. Nom. thk., in. Corr. Allow., in. Attachment Type (Straight or other)

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): _____ (b) Overall length (ft & in.): _____

Course(s) No.	I. D.		Material Spec./Grade or Type	Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treat. Temp.
	Diameter, in.	Length (ft & in.)		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	

15. Heads: (a) * 5/16" SA-516-70 (b) Same
 (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 Type: Full, Spot, None
	Min.	Corr.	Crown	Knuckle					Convex	Concave	
(a) End	.308	0			2:1					X	None
(b) "	.305	"	"	"	"	"	"	"	"	"	"

If removable, bolts used (describe other fastening) 80 - 1" DIA. SA-193-B7 STUDS W/160 - 1" SA-194-2H NUTS
 (Mat'l Spec. No., Grade, Size, No.)