C 5031

Joh No: 13966

| RM U-1 MANUFACTURERS'            | DATA REPORT FO | R PRESSURE VES | SELS (1) | 10"-118 Sa |
|----------------------------------|----------------|----------------|----------|------------|
| as required by the provisions of |                |                |          |            |

|  |   |  |  |   |   | 1814   | (name and ad   | dress of purchase  |  |  |   |
|--|---|--|--|---|---|--|--|--|--|--|---|
| 3. L   | ocatio  | on of insta                                      | Illation So  | fix Corpo   | ration  | , 2800   |  |  | Chattanoog   | ga, TN 3   | 37406   |
| 4 T  | VD 4  | Horizon  | ntal   | B-4620  |   |  |  | me and address)<br>D-91125-1   | 4240   |  | 1991  |
| 7  | ,,,   | (horiz, or ve                                    | ert., tank)  | (mtr's, serial  | no.)  | (CRN)  |  | (drawing no.)  | (Nat'l.  | Bd. no.)   | (year built)  |
|  |   |  |  |   |   |  |  |  |  |  | ER AND PRESSU   |
| ٧  |   |  | ne design, d   | construction  | and workn   | nanship coni   | form to ASM  | IE Code, Secti   | ion VIII, Division   | 11:  | (year)  |
| -  | 1   | (addenda (C                                      | Date!!   | (Cod  |   |  | mp.  | 1,44   | The last   |  | lupports, the   |
|  | c 11  |  |  |   | e Case no.)   |  |  | *******  | ecial service per UG   |  |   |
|  |   |  |  |   | / <del>3</del> = <del>7 = 1</del>   | <del>560 IS., jaskot</del>   |  |  | shells of heat e   | TOTAL TOTAL  |   |
| i. S   | hell:_  | SA312-   | T304 S/S   | .1  |   |  | 11011  | 0,-  | 10-3/4" 0.   | D. 5'-1  | .1-3/4" Lg.   |
|  |   | Weld   | c. no., grade))<br>ed  | (nom. t   | hickness (in.)<br>8.  |  | (corr. allow. (in  |  | (dia. ID (ft. & in.))  | (lenç  | gth (overall) (ft. & in.))  |
| . S  | eams:   | (long. (db                                       | l., sngl.))  | (RT (spot or full)  |   |  | (*F)) (time)   | (girth (dbl  | . sngl.)) (RT(spo  | t, partial, or full))  | (no. of courses)  |
| . н  | eads:   | (a)  | ta Att and   | -1 1850   |   | departs 5  | (b   | West Park  | ter datab  | 41-67-78   | the smor  |
|  |   |  | T  | (mat'l. (spec.  |   |  |  |  | (mat'l. (sp  | ec. no., grade))   |   |
|  |   | ation (top.<br>tom, ends)                        | Minimum<br>Thickness   | Corrosion<br>Allowance  | Crown<br>Radius   | Knuckle<br>Radius  | Elliptical<br>Ratio  | Conical<br>Apex Angle  | Hemispherical<br>Radius  | Flat<br>Diameter   | Side to Pressur<br>(convex or concar  |
| (a   | )   |  |  |   |   |  |  | 1 Lat 18   | A1173-1171   |  | DY O'ZE 'S IN   |
| (b   |   |  |  |   |   |  | 1200   |  | <u> </u>   | FORESTANDED FOR  |   |
| . Ty<br>. Ja                                 | pe of   | jacket:<br>closure:                              | <br>(describe as og  | gee & weld, bar, e  | Proof   | bar, give dim  |  | anibat<br>tule (L.)  | spec. no., gr., size, n  | If boited,   |   |
| . Ту<br>. Ja<br>. М.                         | pe of<br>cket o   | jacket:<br>closure:<br>85                        | describe as og   | gee & weld, bar, e  | Proof   | bar, give dim  |  | anibat<br>tule (L.)  |  | If boited,   |   |
| . Ty<br>. Ja<br>. M.                         | pe of cket of AWP:  | jacket:<br>closure:<br>85<br>(psi)<br>d 13 to be | describe as og<br>at maxtem  | p. 300 (*F)   | Proof If Min desig  | bar, give dim  | o.: 20   | <br>_at <u>85</u><br>_(psi)  |  | If bolted,<br>சசன் <del>ஈ</del> b. test p  | pressure 145 (psi)  |
| . Ty<br>. Ja<br>. M.<br>ms                   | AWP:  | jacket:  | describe as og at max. tem completed 240–T304  | gee & weld, bar, e p. 300 (*F)  for tube sec.   | Proof If Min desig  | n metal temp   | 3/4 <sup>11</sup> (nom. thick  | at 85 (psi)  | . Hydro., p <del>rieuc</del><br>¹¹0¹¹  | If bolted,<br>சென்சும். test j   | pressure 145<br>(psi)   |
| . Ty<br>. Ja<br>. M.<br>ms                   | AWP:  | jacket:  | describe as og at max. tem completed 240–T304 nary mat 1. (spe   | p. 300  (*F)  for tube sec.   | Proof  If  Min desig  tions.  10-3/4 <sup>11</sup> (in.) (subject   | on metal temporal numbers of the pressure)   | 3/4 <sup>11</sup> (nom. thick  | at 85 (psi) Thk.   | . Hydro., p <del>rieu.∈</del><br><sup>11</sup> 0 <sup>11</sup><br>(corr. allow. (ir  | If bolted,<br>क्रम्मक. test (<br>  | pressure 145 (psi) Welded comment (welded, boilt  |
| . Ty<br>. Ja<br>. M.<br>. M.<br>Tu           | rpe of ocket of AWP:  | jacket:  | describe as og at max. tem completed 240–T304 nary mat'l. (specing mat'l. (spe | gee & weld, bar, e p. 300 (*F) for tube sec. c. no gr.)) (dia.  | Proof  If  Min desig  tions.  10-3/4 <sup>11</sup> (in.) (subject  10-3/4 <sup>11</sup> (dia. (iii)   | on metal temporal numbers of the pressure)   | 3/4" (nom. thick   | at 85 (psi)  Thk.  iness (in.))  # Std.  iness (in.))  | Hydro., pries.=c  11011 (corr. allow. (ir 11011  | If bolted,   | pressure 145 (psi)  Welded chment (welded, bolt ained by La (attachment)  |
| . Ty<br>. Ja<br>. M.<br>. M.<br>Tu           | rpe of ocket of AWP:  | jacket:  | describe as og at max. tem completed 240–T304 nary mat 1. (spe   | gee & weld. bar, e p. 300 (*F)  for tube sec. c. no gr.)) (dia.   | Proof  If  Min desig  tions.  10-3/4 <sup>11</sup> (in.) (subject   | on metal temp  | 3/4 <sup>11</sup> (nom. thick  | at 85 (psi)  Thk.  (ness (in.))  (# Std.   | . Hydro., p <del>rieu.∈</del><br><sup>11</sup> 0 <sup>11</sup><br>(corr. allow. (ir  | If bolted,   | pressure 145 (psi) Welded chment (welded, boilt   |
| . Ty<br>. Ja<br>. M.<br>Tu<br>Tu             | AWP: 12 an besh   | jacket:  | (describe as og at max. tem completed 240–T304 nary mat'l (spec 54105 ing mat'l (spec 59–T304 pec. no., gr.))  | gee & weld, bar, e p. 300 (*F)  for tube sec. c. no., gr.)) (dia.   | Proof If Min desig tions.  10-3/4 <sup>11</sup> (in.) (subject 10-3/4 <sup>11</sup> (dia. (ii) /8 <sup>11</sup> (00 (in.))  | n metal temp   | 3/4 <sup>11</sup> (nom. thick 150 (nom thick 18 Ga.                  | Thk.  (ness (in.))  # Std.  (ness (in.))   | Hydro., priesc   | If bolted,   | pressure 145 (psi)  Welded chment (welded, bolt ained by La (attachment) straight   |
| . Ty<br>. Ja<br>. M.<br>. Tu<br>. Tu<br>. Tu | AWP: 12 an beshe 13.  | jacket:  | (describe as og at max. tem completed 240–T304 nary mat'l (spec 54105 ing mat'l (spec 59–T304 pec no. gr.))  | gee & weld, bar, e p. 300 (*F) for tube sec. c. no., gr.)) (dia.  | Proof If Min desig tions.  10-3/4 <sup>11</sup> (in.) (subject 10-3/4 <sup>11</sup> (dia. (ii) /8 <sup>11</sup> (OD (in.))  | n metal temp   | 3/4 <sup>11</sup> (nom. thick 150 (nom thick                         | Thk.  (psi)  Thk.  (ness (in.))  (# Std.  (ness (in.))  (pr gauge))  | Hydro., pries.=  11011 (corr. allow. (in 1101) (corr. allow. (in 121 (no.)   | If bolted,   | Welded chment (welded bott ained by Li (attachment) straight ype (straight or U))   |
| . Ty<br>. Ja<br>. M.<br>. Tu<br>. Tu<br>. Tu | AWP: 12 an beshe 13.  | jacket:  | (describe as og at max. tem completed 240–T304 nary mat'l (spec 54105 ing mat'l (spec 59–T304 pec. no., gr.))  | gee & weld. bar. e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.))  Seted for immediate 165   | Proof If Min desig tions.  10-3/4 <sup>11</sup> (in.) (subject 10-3/4 <sup>11</sup> (dia. (ii) /8 <sup>11</sup> (OD (in.))  | bar, give dim  | 3/4"  (nom. thick  150  (nom thick  18 Ga.                           | Thk.  (psi)  Thk.  (ness (in.))  (# Std.  (ness (in.))  (pr gauge))  (pr gauge)  | Hydro., pries.=c  11011 (corr. allow. (in  11011 (corr. allow. (in  121 (no.)  | If boited,  presento, test p  (atta Ret: (t)  prs. 1   | Welded chment (welded, boit ained by La (attachment) straight ype (straight or U))  |
| . Ty . Ja . M Tu . Tu . Tu . Sh              | AWP: 12 an beshe 13.  | jacket:  | (describe as og at maxtem completed 240–T304 nary mat'l (spec 49–T304 pec. no gr.)) to be completed 2304 S/S ec. no gr.)) ed   | gee & weld. bar. e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.)) (eted for immediately limited for immediately li | Proof  If I   | on metal temperature of the pressure)  I.D.  (nometal temperature)  (nometal temperature)  (nometal temperature)  (nometal temperature)  | 3/4" (nom. thick 150 (nom thick 18 Ga. thickness (in. c              | Thk.  (psi)  Thk.  (ness (in.))  (# Std.  (ness (in.))  (pr gauge))  (pr gauge)  | Hydro., prieuc  11011 (corr. allow. (ir 11011 (corr. allow. (ir 121 (no.) heat exchange -10-3/411 O (dia. IO (ft. & in.))  | If boited,  presento, test p  (atta Ret: (t)  prs. 1   | chment (welded, bolt<br>ained by Li<br>(attachment)<br>straight<br>ype (straight or U))   |
| . Ty . Ja . M M Tu . Tu . Tu . Sh            | pe of cket of AWP:  12 an beshe bes: 14-17 ell:                 | jacket:  | (describe as og at maxtem completed 240–T304 nary mat'l. (spec 3A105 ing mat'l. (spec 49–T304 pec. no gr.)) to be completed 2304 S/S ec. no gr.)) ed bi sngl.))  | gee & weld. bar. e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.)) (eted for image) (nom the sec.)  | Proof  Itc.)  Min desig  tions.  10-3/4!  (in.) (subject  10-3/4!  (dia. (ii  /8!)  (OD (in.))  | on metal temperature of the pressure)  I.D.  (nometal temperature)  (nometal temperature)  (nometal temperature)  (nometal temperature)  | 3/4" (nom. thick 150 (nom thick 18 Ga. thickness (in. c              | Thk.  (ness (in.))  Fechannels of ()  DBI  | Hydro., pries.=c  (corr. allow. (in  11011 (corr. allow. (in  121 (no.) (heat exchange  -10-3/411 0 (dia. IO (ft. & in.))  | If boited,  presento, test p  (atta Ret: (t)  prs. 1   | Welded chment (welded, bolt ained by La (attachment) straight ype (straight or U))  @ 8 <sup>th</sup> Lg. gth (overall) (ft. & in.)   |
| . Ty . Ja . M M Tu . Tu . Tu . Sh            | pe of cket of AWP:  12 an besh clan bes: 14-17                  | jacket:  | (describe as og at maxtem completed 240–T304 nary mat'l (spec 49–T304 pec. no gr.)) to be completed 2304 S/S ec. no gr.)) ed   | gee & weld. bar. e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.)) (eted for image) (nom the sec.)  | Proof If Min designations.  10-3/4 <sup>11</sup> (in.) (subject 10-3/4 <sup>11</sup> (dia. (ii) /8 <sup>11</sup> (OO (in.))  **Chamber 5 <sup>11</sup> nickness (in.)) 8      | on metal temperature of the pressure)  I.D.  (nometal temperature)  (nometal temperature)  (nometal temperature)  (nometal temperature)  | 3/4" (nom. thick 150 (nom thick 18 Ga. thickness (in. c              | Thk.  (psi)  Thk.  (ness (in.))  (# Std.  (ness (in.))  (pr gauge))  (pr gauge)  (psi)  (psi)  | Hydro., priesc.  (corr. allow. (in 110)!  (corr. allow. (in 121 (no.))  (heat exchange 10-3/4! 0 (dia. ID (ft. & in.))  (sngl.)) (RT (spot   | If bolted,  Presents. test (  analy)  Retains)  (test)  (test)   | Pressure 145  (psi)  Welded  chment (welded, bott  ained by Li  (attachment)  straight  ype (straight or U))  @ 8 <sup>tt</sup> Lg.  gth (overall) (ft. & in.))                 |
| . Ty . Ja . M ms . Tu . Tu . Tu . Sh         | pe of cket of AWP:  12 an beshe 14.17 ell: ams: ads:            | jacket:  | (describe as og at maxtem completed 240–T304 nary mat'l. (spec 3A105 ing mat'l. (spec 49–T304 pec. no gr.)) to be completed 2304 S/S ec. no gr.)) ed bi sngl.))  | gee & weld, bar, e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.))  Seted for immediate (AT (spot or luce))   | Proof If Min designations.  10-3/4 <sup>11</sup> (in.) (subject 10-3/4 <sup>11</sup> (dia. (ii) /8 <sup>11</sup> (OO (in.))  **Chamber 5 <sup>11</sup> nickness (in.)) 8      | on metal temperature of the pressure)  I.D.  (nometal temperature)  (nometal temperature)  (nometal temperature)  (nometal temperature)  | 3/4" (nom. thick 150 (nom thick 18 Ga. thickness (in. c              | Thk.  (psi)  Thk.  (ness (in.))  (# Std.  (ness (in.))  (pr gauge))  (pr gauge)  (psi)  (psi)  | Hydro., priesc.  (corr. allow. (in 110)!  (corr. allow. (in 121 (no.))  (heat exchange 10-3/4! 0 (dia. ID (ft. & in.))  (sngl.)) (RT (spot   | If bolted,  PEGRIPO. test    (atta Retain.))  (atta Retain.))  (it.)  (it.)  (it.)  (it.)  (it.)  (it.)  (it.)  (it.)  | Pressure 145  (psi)  Welded  chment (welded, bott  ained by Li  (attachment)  straight  ype (straight or U))  @ 8 <sup>tt</sup> Lg.  gth (overall) (ft. & in.))                 |
| . Ty . Ja . M. ms . Tu Tu Sh                 | pe of cket of AWP:  12 an beshed lang bes: 14-17 ell: ams: ads: | jacket:  | (describe as og at max. tem completed 240–T304 nary mat'l (spec 49–T304 pec. no gr.)) to be completed 2304 S/S ec. no gr.)) to de completed 2304 S/S ec. no gr.))  | gee & weld, bar, e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.))  // (dia no gr.))  | Proof If Itc.)  Min designations.  10-3/4 <sup>11</sup> (in.) (subject 10-3/4 <sup>11</sup> (dia. (ii) /8 <sup>11</sup> (OD (in.))  Brickness (in.) 8 (iii) (eff. (iii) Crown | bar, give dim  | 3/4 <sup>11</sup> (nom. thick 150 (nom thick 18 Ga. thickness (in. c | Thk.  (psi)  Thk.  (ness (in.))  (pr gauge))  (pr gauge)  (propauge)  (propaug | Hydro., pries. c.  (corr. allow. (in 110) ii (corr. allow. (in 121 (no.)) ii (no.) i | If bolted,  presento, test presento, pres | Welded chment (welded, bott ained by Li (attachment) straight ype (straight or U))  @ 81 Lg. gth (overall) (it. & in.)) 1 (no. of courses)                                      |
| . Ty . Ja . M. ms . Tu Tu ms . Sh . See      | pe of cket of AWP:  12 an besheve lan; bes:                     | jacket:  | (describe as og at max tem completed 240–T304 nary mat'l. (spec 49–T304 pec. no gr.)) to be completed solutions at the complete solution at th     | gee & weld. bar. e p. 300 (*F) for tube sec. c. no gr.)) (dia no gr.))  // Leted for image (nom the sec.) (RT (spot or full) (mat'l. (spec. r Corrosion Allowance   | Proof  If  Min desig  tions.  10-3/4!  (in.) (subject  10-3/4!  (dia. (ii  /8!  (OO (in.))  Rechamber  8  (iii)  (eff. (iii)  Crown Radius                                    | on metal temporal tem | 3/4" (nom. thick 150 (nom thick 18 Ga. thickness (in. c              | Thk.  (psi)  Thk.  (ness (in.))  (pr gauge))  (pr gauge)  (propauge)  (propaug | Hydro., pries. (in 1101)  (corr. allow. (in 1101) (corr. allow. (in 121 (no.) (no.) (heat exchange (no.) (dia. ID (ft. & in.)) (mat'l. (specifical Radius  | If boited,  Presento, test p  (atta Ret:  (b)  (t)  (t)  (t)  (t)  (t)  (t)  (t)   | Welded chment (welded, bott ained by Li (attachment) straight ype (straight or U))  @ 8** Lg. gth (overall) (ft. & in.)) 1 (no. of courses) Side to Pressure (convex or concave |

| Purpose (inlet,<br>outlet, drain, etc.) | Number | Día. or Size | Туре   | Mat'l. | Nom.<br>Thickness | Reinforcement<br>Material               | How<br>Attached | Location |
|---|--------|--------------|--------|--------|-------------------|---|-----------------|----------|
| Inlet                                   | 1      | 611          | CL-150 | SA312  | Sch #10           | Inherent                                | Welded          | Bonnet   |
|   |        |              |        | π304   |                   |   |                 |          |
| Outlet                                  | 1      | 2"           | CL-150 | SA312  | Sch #10           | Inherent                                | Welded          | Bonnet   |
|   |        |              |        | T304L  |                   |   |                 | Bonne    |
| Inlet and                               | 2      | 1-1/2"       | CL-150 | SA312  | Sch #10           | Inherent                                | Welded          | Shell    |
| Outlet                                  |        |              |        | T304   |                   |   |                 |          |
|   |        |              |        |        |                   | * · · · · · · · · · · · · · · · · · · · |                 |          |
|   |        |              |        |        |                   |   |                 |          |

| 19. Supports: Sk   | (yes or no)  | Lugs   | 2Legs_   | (no.)  | Other  | (describe)   | Attached_  | Welde  | d to ma  |  | shell_                                   |
|--|--|--|--|--|--|--|--|--|--|--|--|
| 20. Remarks: Mai   |  | artial Data Re   |  |  |  |  |  |  |  |  | ed for the                               |
|  | no or the repor  |  |  | (n   | ame of part, ite   | m number, mfr's, n   | name and identifyin  | n stamo)   |  |  |  |
| Unit   | not desi   | gned for   | lethal   | servi  | ce. Un   | it designe   | d for non  | y stamp;   |  |  |  |
| hydro-t  | ested in   | horizonta  | il posit   | rion.  | Evempt   | from impo  | ot tocation  | -60110   | Sive Se  | SLATO  | e. Un                                    |
| UG-20 (  | b), UCS-60   | 6 and UHA  | \ <del>-</del> 51.   | Safety   | valve o  | Sound Horse  | located  | gper   | code pa  | ragi   | apns                                     |
| One bon  | net consi  | sting of   | 10" 7  | 6" Sch   | #10 cor  | omection   | litocated  | ersewn   | ere in   | syst   | em.                                      |
|  |  | 344115, 01   |  |  | #10 COI  | rentite i  | educer 1-  | 304, S   | A403.  |  |  |
|  |  |  | 255  |  |  |  |  |  |  |  |  |
| We certify that the  | e statements e   | nnda ia thia a   | CEHI   | IFICATE  | OF SHOP  | COMPLIANCE   |  |  |  |  |  |
| We certify that the vessel conform to  | the ASME Co  | naue in (ms r  | eport are c  | orrect an  | id that all de   | etails of design   | n. material, cor   | nstruction   | and work   | mansh  | ip of this                               |
| "II" Certificate of  | Authorization  | 4328   | ure vessei   | is, Sectio   | on VIII. Divis<br>Dec. 31  | ion 1.   |  |  |  |  |  |
| "U" Certificate of<br>Date <u> </u>  | 91 Name  | Perry P  | roducts  | ores   | Dec. 31  | . 19   | .•   |  |  | م ب  |  |
| Date_D_Z_  | Name_  |  |  |  | factureri  |  | Signe  | ed   | <u>1.11.1</u>  | 151  | <u> </u>                                 |
|  |  |  |  |  |  |  |  |  | (represen  | lative)  |  |
| Vessel constructed   | d by Perr  | y Produc   | ts Corp  | oratio   | on   | NSPECTION  | a  | t_Haine  | esport,  | ŊJ   |  |
| I, the undersigned, ince of <u>New Je</u>  | , holding a vali<br>ersevand   | a empioyed o   | y  |  | ,ucuar   | wasuarty   | CO. OI TO  | ng Grov  | те, іі   |  |  |
|  | .22 .  | of   |  |  | have incom   |  |  | cribad in  | Abia Massi   | 64   |  |
| Report on 3  | . 22 - 4   |  |  |  | Thave mape   | ctea the press   | sure vessei des  |  | unis Manu  | ıacııır  | ers Data                                 |
|  |  | 19 <u>~~~</u> , al   | no state in  | at, to the   | e best of my   | cted the press   | sure vessel des<br>nd belief, the i  | nanufacti  | mis Manu<br>Irer has co  | nstru  | ers Data                                 |
| pressure vessel in   |  | /ith ASME Co   | nd state th<br>ode, Sectio   | iat, to the<br>on VIII, Di   | e best of my<br>ivision 1.   | knowledge a  | nd belief, the i   | manufactu  | irer has co  | onstru   | cted this                                |
| pressure vessel in<br>By signing this cer  | rtificate neithe   | vith ASME Co   | nd state th<br>ode, Sectio<br>or nor his e   | at, to the<br>on VIII, Di<br>emplover  | e best of my<br>ivision 1.<br>makes anv  | knowledge a  | nd belief, the i   | manufactu  | rer has co   | onstru   | cted this                                |
| pressure vessel in<br>By signing this cer<br>described in the M  | rtificate neithe<br>Ianufacturers'   | with ASME Co<br>r the inspect<br>Data Report.  | nd state th<br>ode. Section<br>or nor his e<br>Furthermo   | iat, to the<br>on VIII, Di<br>employer<br>ore, neithe  | e best of my<br>lvision 1.<br>makes any<br>er the inspe  | knowledge a<br>warranty, expr<br>ctor nor his er   | nd belief, the ressed or impli-  | manufactu  | rer has co   | onstru   | cted this                                |
| pressure vessel in<br>By signing this cer<br>described in the M<br>sonal injury or pro   | rtificate neithe<br>lanufacturers'<br>perty damage   | vith ASME Co<br>r the inspect<br>Data Report.  | nd state the ode. Section or nor his effective Furthermo anykind a   | eat, to the<br>on VIII, Di<br>employer<br>ore, neithe<br>rising fro  | e best of my<br>ivision 1.<br>makes any<br>er the inspe  | warranty, expr<br>ctor nor his er  | nd belief, the ressed or implicate the majorer shall be the spection.  | manufactu  | rer has co   | onstru   | cted this                                |
| pressure vessel in<br>By signing this cer<br>described in the M<br>sonal injury or pro   | rtificate neithe<br>lanufacturers'<br>perty damage   | vith ASME Co<br>r the inspect<br>Data Report.  | nd state the ode. Section or nor his effective Furthermo anykind a   | eat, to the<br>on VIII, Di<br>employer<br>ore, neithe<br>rising fro  | e best of my<br>ivision 1.<br>makes any<br>er the inspe  | warranty, expr<br>ctor nor his er  | nd belief, the ressed or implicate the majorer shall be the spection.  | manufactu<br>ed, concer<br>pe liable in  | rning the particular any mann  | onstru<br>ressu<br>ner for   | cted this                                |
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FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (1) 10"-118 sq. as required by the provisions of the ASME Code rules, Section VIII, Division 1 FTSSX Heat Exchanger

| 42        |                               |                           | jan i  |                          |  |   |  |                               |                           |  |
|-----------|-------------------------------|---------------------------|--|--------------------------|--|---|--|-------------------------------|---------------------------|--|
| 1. Manu   | ifactured an                  | d certified b             | v_Perry  | Produc                   | ts Corn  | oration,  | 25 Mt. I                                       | aurel Road                    | i, Haine:                 | sport, NJ O                            |
|           |                               |                           |  |                          |  | (name   | and address of ma                              | anufacturer)                  |                           |  |
| 2. Manu   | factured for                  | SOLIX                     | Cornorat   | :10n, 1                  | I Nort   |   |  |                               | nattanoo                  | ga, TN 374                             |
|           |                               | Sof                       | ix Corne   | ration                   | 2800   |   | idress of purchase                             | n<br>Chattanoos               | - TN '                    | 37406                                  |
| 3. Loca   | ion of insta                  | llation                   | .IX GOLDC  | Lacion                   | , 20 111   |   | me and address)                                | Chactanoo                     | 3a, 1.11 .                | 37470                                  |
| d Typ.    | Horizon                       | ital                      | B-4620<br>(mfr's, serial                             |                          |  |   | D-91125-1                                      | 4240                          |                           | 1991                                   |
| 4. Typ    | (horiz, or ve                 | rt., tank)                | (mfr's, serial                                       | no.)                     | (CRN)  |   | (drawing no.)                                  | (Nat'l.                       | Bd. no.)                  | (year built)                           |
| 5. The c  | hemical and                   | l physical pr             | operties of a  | II parts me              | et the requi   | irements of   | material speci                                 | ifications of the             | ASME BOIL                 | ER AND PRESSU                          |
|           |                               |                           |  |                          |  |   |  | ion VIII, Division            |                           | 989                                    |
|           | 1989                          |                           | -  |                          |  |   |  |                               |                           | (year)                                 |
|           | (addenda (D                   | ate))                     | (Cod   | e Case no.)              |  |   | (sp  | ecial service per UG          | -120(d))                  |  |
| ems 6-1   | 1 inclusive t                 | o be comple               | eted for sime  | /a= <del>v=//=ve</del> s | <del>cels-iasko</del> i  | ts of insken  | # <u></u>                                      | shells of heat e              | exchangers                |  |
|           |                               |                           |  |                          |  |   |  |                               | · · · · ·                 | the processor to the                   |
| 3. Shell: | SA312-                        | 1304 S/S                  | (nom. t  | 34"                      | east to the control of the control o | () () () () () () () ()                             | <u>,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u> | 10-3/4" 0.                    | D. 5'-1                   | .1-3/4" Lg. gth (overall) (ft. & in.)) |
|           | Welde                         |                           |  | 8 <u>5</u>               |  | (con. allow, (ii                                    |  | (dia. IU (it. & in.))         | (len                      | gtn (overall) (tt. & in.))             |
| 7. Seam   | S:(long. (dbl                 | sngi.))                   | (RT (spot or full                                    |                          | (HT temp   | . (°F)) (time                                       | ) (girth (dbl.                                 | . sngl.)) (RT(spo             | t. partial, or full)      |  |
| 3. Head:  | s: (a)                        |                           |  |                          |  | (b  | ))   |                               |                           |  |
| _         |                               |                           | (mat`l. (spec.                                       | no., grade))             | <b>,</b>   | \-  | Tomas e estado                                 | (mat'l. (sp                   | ec. no., grade))          |  |
|           | ocation (top.<br>ottom, ends) | Minimum<br>Thickness      | Corrosion<br>Allowance                               | Crown<br>Radius          | Knuckle<br>Radius  | Elliptical<br>Ratio                                 | Conical<br>Apex Angle                          | Hemispherical<br>Radius       | Flat<br>Diameter          | Side to Pressure<br>(convex or concave |
| (a)       |                               |                           |  |                          |  |   |  | Mg == 15 Mg                   | * <b></b>                 |  |
| (b)       |                               | <u> </u>                  | ***  | (S)                      |  |   | 1,1 <b></b>                                    |                               |                           |  |
| . MAWI    |                               |                           | ee & weld, bar, e<br>p. 300<br>(*F)                  |                          | n metal tem  | <sub>p.:</sub> 20                                   | _at <u>85</u>                                  | . Hydro., p <del>rneu.∹</del> | π- <del>soπ</del> nb.test | pressure 145                           |
|           | (psi)                         |                           | (°F)   |                          |  | (*F)  | (psi)  |                               |                           | (psi)                                  |
| ms 12 a   | nd 13 to be                   | completed                 | for tube sec   | tions.                   |  |   |  |                               |                           |  |
| Tubon     | basta: SA2                    | 40-T304                   |  | 10-3/4"                  | 0.D.   | 3/4"  | Thk  | 11011                         |                           | Welded                                 |
| . Tubes   | (statio                       | nary mat I. (spec         | c. no., gr )) (dia                                   | . (in.) (subject         | to pressure))  | (nom. thic  | kness (in.))                                   | (corr. allow. (in             |                           | schment (welded, boilte                |
| y Fla     | nges: S                       |                           | · · · · · · · · · · · · · · · · · · ·                | 10-3/4"                  | I.D.   | 150   | O# Std.  | ,,0,,                         | Ret                       | ained by Li                            |
|           |                               | ing mat I (spec.          | THE THE THE SECTION AND ADMINISTRATION OF THE PARTY. |                          | 1.))   |   | kness (in.))                                   | (corr. allow. (ii             | •                         | (attachment)                           |
| Tubes     |                               | 9-T304                    |  | /8 <sup>1</sup>          |  | 18 Ga.  |  | 121                           |                           | straight                               |
| 111       |                               |                           |  |                          |  |   |  | (no.)                         |                           | type (straight or U))                  |
| ms 14-1   | / inclusive t                 | to de compli              | eted for ####  | K=CH&M \$61              | <del>s-o≠jackot</del> i  | ed= <del>                                    </del> | ∍⊨channels of                                  | heat exchange                 | ers.                      |  |
| Shell:    | SA312-T                       | 304 S/S<br>ec. no., gr.)) | .165   | 5 <b>''</b>              |  | 11U11   | 0,-  | -10-3/4" o                    | .D. 1                     | @ 8" Lg.                               |
| Seams     | Molda                         |                           | (nom t   | hickness (in.))<br>8     |  | (corr allow (in                                     | - DBI  | (dia. ID ((t. & in.))         | (len                      | gth (overall) (ft. & in.))             |
|           | (long (dl                     | bl., sngl.))              | IRT Ispot or fu                                      | (eff. (                  | %)) (HT temp   | p. (*F)) (time                                      | e) (girth (dbl.                                | , sngl.)) (RT (spo            | t. partial, or full))     |  |
| Heads     | (a)S                          | A105 C/S                  |  |                          |  | (b)   | 1  |                               |                           | engilana tirin                         |
| <u></u>   |                               | т т                       | (mat'l. (spec. i                                     | no., grade))             |  |   |  | (mat'l. (spe                  | ec. no., grade))          | ·                                      |
|           | tom, ends)                    | Minimum<br>Thickness      | Corrosion<br>Allowance                               | Crown<br>Radius          | Knuckle<br>Radius  | Elliptical<br>Ratio                                 | Conical<br>Apex Angle                          | Hemispherical<br>Radius       | Flat<br>Diameter          | Side to Pressure<br>(convex or concave |
| (a) R     | End                           | 1-3/16                    | "O"  |                          |  |   |  |                               | 10-3/4"                   | Concave                                |
| (b) L     | . End                         |                           |  |                          |  |   |  |                               |                           |  |
| If remo   | vable, bolts                  | used (descr               | ibe other fas  | tenings):                | (12) 7/8   | 8" Dia.   |  |                               | Sstuds                    | SA193 B7                               |
|           |                               |                           |  | e e engan                |  |   | (mat'l., s                                     | pec. no., gr., size, n        | 0.)                       |  |
| MAWP      | 35/FV                         | at max. temp              | 300  | Min design               | n metal temp   | p.:2^   | _at35/FV_                                      | Hydro., <del>ਸਾਵਿਚ.ਤ</del>    | र दर्जातक. test।          | pressure 60                            |
|           | (psi)                         | •                         | (*F)   |                          |  | (°F)  | (psi)  | ,, μσα. σ                     |                           | (psi)                                  |

| Purpose (Inlet,      |        |              |        | T T    | Nom       | Reinforcement | ·                 |          |
|----------------------|--------|--------------|--------|--------|-----------|---------------|-------------------|----------|
| outlet, drain, etc.) | Number | Dia. or Size | Туре   | Mat'l. | Thickness | Material      | , How<br>Attached | Location |
| Inlet                | 1      | 6"           | CL-150 | SA312  | Sch #10   | Inherent      | Welded            | Bonnet   |
| •                    |        |              |        | T304   |           |               |                   |          |
| Outlet               | 1      | 2"           | CL-150 | SA312  | Sch #10   | Inherent      | Welded            | Bonnet   |
|                      |        |              |        | T304L  |           | Zimer cire    | werded            | Jamiod   |
| Inlet and            | 2      | 1-1/2"       | CL-150 | SA312  | Sch #10   | Inherent      | Welded            | Shell    |
| Outlet               |        |              |        | T304   |           | ZIIIIII CIIC  | WEIGH             | METT     |
|                      |        |              |        |        |           |               |                   |          |
|                      |        |              |        |        |           |               |                   |          |
| Supports: Skirt      | Lugs   | 2Legs        | 0      | ther   |           | Weld          | led to mai        | n shell  |
| (yes or n            |        | (no.)        | (no.)  |        | describe) | AttachedWelc  | (where and how    |          |

|            | (yes or no) (no.) (no.) (describe) Attached (where and how)  |
|------------|--|
| 20. R      |  |
| fo         | marks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the lowing items of the report:   |
|            | (name of part, item number, mfr's, name and identifying stamp)   |
| _          | Unit not designed for lethal service. Unit designed for non-corrective complete.   |
| _          | hydro-tested in norizontal position. Exempt from impact testing per Code paragraphs  |
|            | U(3-21) (D), UCS-00 and UHA-51. Safety valve connection located electrons in anthony   |
|            | One bonnet consisting of 10" x 6" Sch #10 concentric reducer T-304, SA403.   |
|            |  |
|            | CERTIFICATE OF SHOP COMPLIANCE   |
| We ce      | tify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this  |
| 1 163361   | COMMINITO THE ADME CODE OF PERSONE VASSAIS Section VIII Divinion 1   |
| ""U" C     | rtificate of Authorization no. 4328 expires Dec. 31 19 91 S-22-91 Name Perry Products Corporation Signed J. W. J.C.  |
| Date_      | 8-22-91 Name Perry Products Cornoration Signed J M. JACK   |
|            | (manufacturer) Signed Signed (representative)  |
|            | CERTIFICATE OF SHOP INSPECTION   |
| Vessel     | constructed by Perry Products Corporation . Hainesport, NJ   |
| I, the u   | ndersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or every  |
| ince of    | ndersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or prov-<br>Mew Jersev and employed by Lumbermens Mutual Casualty Co. of Long Grove, IL   |
|            | ofhave inspected the pressure vessel described in this Manufacturers' Data on  |
| Report     | on   |
| ,          | The state of the s |
| By sigr    | ing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel   |
|            | of in the Mandiacturers. Data neport, Furthermore, neither the inspector nor his amplayer shall be the like the  |
| 001101 11  | different damage of a loss of anyking arising from or connected with this inspection   |
| Date       | Signed (Nat'l. 8d. (incl. endorsements) state grow and no.   |
|            | Too state, prov. and no.)  |
|            | CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE   |
| We cert    | ify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the   |
|            | NOTEEN AND PRESSORE VESSEL CODE.   |
| "U" Ce     | tificate of Authorization noexpires  |
| Date       | NameSigned   |
|            | (representative)   |
|            | CERTIFICATE OF FIELD ASSEMBLY INSPECTION   |
| i, the ur  | dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or prov-   |
| ince of_   | and employed byand employed by   |
|            | ofhave compared the statements in this Manufacturers' Data   |
| Heport v   | The the described pressure vessel and state that parts referred to as data items   |
| 30, 111100 | of slip hispection, have been inspected by me and that to the hest of my knowledge and helief the manufacture  |
|            | and additional time pressure vesser in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected   |
|            | osted to a hydrostatic test ofDSI.   |
| sy signi   | ng this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel  |
|            | and the Mandiactorers. Data neport. Furthermore, neither the inspector nor his employer shall be lighted and provided the control of the cont |
|            | any or property damage or a loss or any kind arising from or connected with this inspection  |
| Jate       | SignedCommissions  |
|            | (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)  |