

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1/3

1. Manufactured and certified by TRINITY INDUSTRIES, INC., 1549 VANCE STREET, ROCKY MOUNT, NC PLANT#04  
(NAME AND ADDRESS OF MANUFACTURER)

2. Manufactured for COMMONWEALTH PROPANE, P.O. BOX 35800, RICHMOND, VA 23235  
(NAME AND ADDRESS OF PURCHASER)

3. Location of installation VIRGINIA ELECTRIC & POWER, POSSUM PT. POWER STATION, DUNFRIES, VA 22026  
(NAME AND ADDRESS)

4. Type HORIZ 120559 621533rA 70924 1994  
(HORIZ OR VERT TANK) (MFGR'S SERIAL NO.) (CRN) (DRAWING NO.) (NAT'L. BD NO.) (YEAR BUILT)

5. 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 Rules, Section VIII, Division 1 1992  
YEAR

10 A92  
ADDENDA (DATE) CODE CASE NOS SPECIAL SERVICE PER UG 120 (D)

6. Shell: SA612 0.673" 0" 9'-0" 32'-0"  
MATL (SPEC NO., GRADE) NOM THK (IN) CORR ALLOW (IN) DIAM ID (FT & IN) LENGTH (OVERALL) (FT & IN)

7. Seams: WELD, DBL FULL 100% WELD, DBL FULL 4  
LONG, WELDED, DBL, ENGL., LAP, BUTT R.T. (SPOT OR FULL) EFF (%) H.T. TEMP (F) TIME (HR) GIRTH (WELDED, DBL, ENGL., LAP, BUTT) R.T. (SPOT, PARTIAL, OR FULL) NO OF COURSES

8. Heads: (a) Matl. SA612 HOT FORM NORM (b) Matl. SA612 HOT FORM NORM  
(SPEC NO., GRADE) (SPEC NO., GRADE)

Seg. Seams: WELD, DBL H.T.: R.T.: SPOT Eff: 85%

	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)	END	0.387"	0"					54.286		CONCAVE
(B)	END	0.387"	0"					54.286		CONCAVE

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(MATL., SPEC. NO., GR., SIZE, NO.)

9. MAWP 250 psi at max temp. 125 °F  
 Min. design metal temp 11 °F at 250 psi. Hydro. 172 psi. Com. test pressure 375 psi.

10. Nozzles, inspection and safety valve openings: -20°F 172psi

PURPOSE (INLET, OUTLET, DRAIN)	NO	DIAM OR SIZE	TYPE	MATL	NOM THK	REINFORCEMENT MATL	HOW ATTACHED	LOCATION
MANWAY	1	15"	PTFLG	SA516-70N	2.50"	INTEGRAL	(j)	HEAD
FLOAT, ROT	1.1	2.5", 2"	CPLG	SA105	3000#		(y-2)	
TW, LL/PG	1.1	.75"	CPLG	SA105	6000#		(y-2)	
LTQ. OUT	1	3"	CPLG	SA105	6000#		(y-1)	
VAP, RELIEF	1.2	2"	CPLG	SA105	3000#		(y-1)(z-1)	
FILL, VAPOR	1.1	2"	CPLG	SA105	3000#		(z-1)	

11. Supports: Skirt NO Lugs NO Legs NO Other Attached  
(YES OR NO) (NO) (NO) (DESCRIBE) (WHERE AND HOW)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: TRINITY HEAD #1: 936-16 #2: 937-24  
(NAME OF PART, ITEM NUMBER, MFGR'S NAME AND IDENTIFYING STAMP)

**TANK, HORIZONTAL STORAGE: 109.346" OD x 18,000 NOM WG  
 TO BE USED IN A NON-CORROSIVE SERVICE.  
 LINE 9: MDMT/PSI BASED ON UCS-66(a) & UCS-66(b)**

**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. 10,829 which expires JAN 15, 1995  
 Date 1-13-94 Co. No. TRINITY INDUSTRIES, INC PLANT #04 Signed E. N. ...  
MANUFACTURER REPRESENTATIVE

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by TRINITY INDUSTRIES, INC PLANT #04 at ROCKY MOUNT, NC  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NORTH CAROLINA and employed by OLD REPUBLIC INSURANCE COMPANY  
 have inspected the component described in this Manufacturer's Data Report on JANUARY 13 19 94, 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 the 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 1-17-94 Signed J. M. ... Commissions NC 1089 NATL BD 5708A  
(AUTHORIZED INSPECTOR) (NAT'L BOARD (INCL. ENDORSEMENTS), STATE, PROV. AND NO.)

NB # 70924

S/O H-193

109" Blar

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FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Trinity Industries, Inc. 1901 Brennan, Ft. Worth, TX 76106
(Name and address of manufacturer)

2. Manufactured for Trinity Industries, Inc. Dallas, Texas
(Name and address of purchaser)

3. Location of installation "Stock"
(Name and address)

4. Type 936-16 S-40308-01 1992
(Horz. or vert. tank) (Mfg's serial No. of Part) (CRN) (Drawing No) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The construction and workmanship conform to ASME Rules, Section VIII, Division 1, 1989
Year

A-91 2131
Addenda (date) Code Case No. Special Service per UG-120(d)

6. (a) Drawing prepared by Trinity Industries, Inc. (b) Description of part inspected Hemispherical Head

7. Postweld heat treatment: Temp. \* °F Time

8. Shell:
Wall Neck Thk (in) Cor Allow (in) Diam I.D. (ft & in) Length (Overall) (ft & in) No. of Courses

9. Seams:
Lmp. R.T. L.H. (2) Girth R.T.

10. Heads: (a) Matl. SA-612 (b) Matl.
(Spec. No., Grade) (Spec. No., Grade)

Table with 10 columns: 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). Row (a) shows .387" thickness and 54.673" radius. Row (b) shows Concave side.

If removable, bolts used (describe other fastenings)
(Mat'l., Spec. No., Gr., Size, No.)

11. MAWP psi at max. temp. °F. Min. design metal temp. °F at psi
Hydro., pneu., or comb. test press. psi in the position

12. Nozzles and Inspection Openings:

Table with 10 columns: Purpose (Inlet, Outlet, Drain, etc.), No., Diam. or Size, Type, Matl., Nom. Thk, Reinforcement Matl., How Attached, Location. Row 1: Roto. Ga., 1, 2", Cplg., SA-105, 3000#, ---UW16.1Y2, Top.

13. Supports: Skirt Lugs Legs Other Attached

14. Remarks: \* Head segments are hot formed @ 1650 degrees F and air cooled, double butt welded, Spot X-Rayed seams with joint efficiency of 85% .387" Min. x 109.346" O.D. segmental hemispherical head.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.
"U" Certificate of Authorization No. 11,454 expires March 14, 1993
Date 1-8-93 Co. name Trinity Industries, Inc. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Texas and employed by Old Republic Insurance Company, Dallas, Texas
have inspected the pressure vessel part described in this Manufacturer's Data Report on 1-8-93, 1993, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part of a pressure vessel in accordance with the 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 part described in the 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 loss of any kind arising from or connected with this inspection.
Date 1-8-93, 1993 Signed [Signature] Commissions Texas 1066
(Inspector) (Manufacturer's State, Prov. and No.)

NB# 70924

S/O H-1937

109" Pitt

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FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Trinity Industries, Inc. 1901 Brennan, Ft. Worth, TX 76106
2. Manufactured for Trinity Industries, Inc. Dallas, Texas
3. Location of installation "Stock"
4. Type A-91 2131 S-40293-01 1993

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The construction and workmanship conform to ASME Rules, Section VIII, Division 1 1989

6. (a) Drawing prepared by Trinity Industries, Inc (b) Description of part inspected Hemispherical Head

7. Postweld heat treatment: Temp. \* °F Time

8. Shell: Mat. Nom. Thk. (in) Cor. Allow. (in) Cham. F. (F & in) Length (Overall) (F & in) No. of Courses

9. Seams: Long R.T. Eff. (%) Grth R.T.

10. Heads: (a) Mat. SA-612 (Spec. No., Grade) (b) Mat. (Spec. No., Grade)

Table with 10 columns: Location (Top, Bottom, Ends), Minimum Thickness, Corrosion Allowance, Crown Radius, Knuckle Radius, Elliptical Ratio, Conical Apex Angle, Hemispherical Radius, Flat Diameter, Side to Pressure (Concave or Convex). Row (a) shows .387" thickness and 54.673" radius. Row (b) shows O.D. radius.

If removable, bolts used (describe other fastenings)

11. MAWP psi at max. temp. °F Min. design metal temp. °F at psi. Hydro., pneu., or comb. test press. psi in the position.

12. Nozzles and Inspection Openings: Table with 9 columns: Purpose (Inlet, Outlet, Drain, etc.), No., Diam. or Size, Type, Mat., Nom. Thk., Reinforcement Mat., How Attached, Location. Includes entries for Thermo., PG. LL., Float Ga., and Manway.

13. Supports: Skirt Lugs Legs Other Attached

14. Remarks: \* Head segments are hot formed @ 1650 degrees F and air cooled, double butt welded. Spot X-Rayed seams with joint efficiency of 85% .387" Min. x 109.346" O.D. segmental hemispherical head.

CERTIFICATE OF SHOP COMPLIANCE and CERTIFICATE OF SHOP INSPECTION. Includes text: "We certify that the statements made in this report are correct..." and "I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors...".