

A200343

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

T-6150/9

1. Manufactured and certified by Trinity Industries, Inc., 160 N. Rockford, Tulsa, Oklahoma #27
(NAME AND ADDRESS OF MANUFACTURER)
2. Manufactured for Allwest Tankers Ltd., P.O. Box 532 - Station T, Calgary, Alberta, CANADA
(NAME AND ADDRESS OF PURCHASER)
3. Location of installation Allwest Tankers Ltd., c/o McDonald Engineering, Sylvan Lake, Alberta
(NAME AND ADDRESS)
4. Type Horiz. 115105 * S-40803 147 1983
(HORIZ. OR VERT. TANK) (MPG'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 1980
to 6-82 - 200393
(ADDRESS (DATE)) (CODE CASE NOS.) (SPECIAL SERVICE PER US 1201)
6. Shell: SA-612 .673 0 9' 0" 57' 0" Duplicate
(MATERIAL SPEC. NO., GRADE) (NOM. THK. (IN.)) (CORR. ALLOW. (IN.)) (DIAM. I.D. (FT. & IN.)) (LENGTH (OVERALL) (FT. & IN.))
7. Seams: Dbt. Butt Full 100% - Dbt. Butt Full 6
(WELD (INCL. OR EXCL. FROM R.T. SPOT OR FULL)) (R.T. (SPOT OR FULL)) (EFF. (%) (H.T. TEMP. (F)) (TIME (HR.)) (WELD (INCL. OR EXCL. FROM R.T. SPOT OR FULL)) (R.T. (SPOT, PARTIAL, OR FULL)) (NO. OF R.T. SPOTS))
8. Heads: (a) Matl. SA-612 (b) Matl. SA-612 84-02-30
(SPEC. NO., GRADE) (SPEC. NO., GRADE) (E.W.)
- Seg. Seams: Dbt. Butt H.T.: Hot Formed R.T.: Spot Eff.: 85%

	LOCATION (TOP, BOTTOM, SIDE)	MINIMUM THICKNESS	CORROSION ALLOWANCE	CROWN RADIUS	RIB RADIUS	ELLIPTICAL RATIO	CORICAL 2R RADIUS	HEMISPHERICAL RADIUS	FLAT DIAMETER	SIDE TO PRESSURE (CONVEX OR CONCAVE)
(a)	Ends	.387	0"	-	-	-	-	54.286'	-	Concave
(b)										

If removable, bolts used (describe other fastenings)

(MATERIAL SPEC. NO., OR, SIZE, NO.)

9. MAWP 250 125 psi at max. temp. 125 °F
Min. temp. (when less than - 20°F) - °F. Hydro. test pressure 375 psi.
10. Nozzles, inspection and safety valve openings:

PURPOSE (INLET, OUTLET, DRAIN)	NO.	DIAM. OR SIZE	PT. 1	MATL.	NOM. THK.	REINFORCEMENT MATL.	NOM. THICKNESS	LOCATION
Safety Val.	3	2"	Cplg.	SA-105	6000#	-	34	-
Liq. Out	1	3"	Cplg.	SA-105	6000#	-	33	-
Fill. Vapor	3	2"	Cplg.	SA-105	3000#	-	34, 33	-
Level Ga.	1	2.5"	Cplg.	SA-105	3000#	-	30	-
Rotary Ga.	1	2"	Cplg.	SA-105	3000#	-	30	-
Therm.	1	.75	Cplg.	SA-105	6000#	-	30	-
LL & PG	1	.75	Cplg.	SA-105	6000#	-	30	-
Manhole	1	15" Pad Type	SA-515-70	250#	Integral	-	30	-

11. Supports: Skirt No Lugs 1 (Grd.) Legs - Other - Attached Welded to Head
(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: 6, 7, 8, SN-40803-105, 836-06, 835-78

(NAME OF PART, ITEM NUMBER, MPG'S NAME AND IDENTIFYING STAMP)
108" I.D. 30,000 W.G. Bulk Storage Tank To Be Used in a Non-Corrosive Service

*CRN E-3680, 12345678

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. 16527 expires April 8, 1984.

Date 10/14/83 Co. name Trinity Industries, Inc. Signed Law Nelson
(MANUFACTURER) (REPRESENTATIVE)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Trinity Industries, Inc. at Tulsa, Oklahoma
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 Oklahoma and employed by Commercial Union

Insurance Co. have inspected the component described in this Manufacturer's Data Report on Oct. 14, 19 83, 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 this 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 10-14-83 Signed Extallick Commissions OK 258, NB #5298
(AUTHORIZED INSPECTOR) (NAT'L. BOARD (INCL. ENDORSEMENTS), STATE, PROV. AND NO.)

A200343

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
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. 1000 N.E. 28th St. Ft. Worth, Texas, 76106
(NAME AND ADDRESS OF MANUFACTURER)
2. Manufactured for Trinity Industries Inc.
(NAME AND ADDRESS OF PURCHASER)
3. Location of installation _____
(NAME AND ADDRESS)
4. Type Horiz S/N 40803-105 S-40803 1983
(HORIZ. OR VERT. TANK) (MFGR'S SERIAL NO. OF PART) (CRN) (DRAWING NO.) (NAT'L. ID. 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. 1983
YEAR

ADDENDA (DATE)

CODE CASE NO.

SPECIAL SERVICE PER UG 100(D)

6. (a) Drawing prepared by _____ (b) Description of part inspected _____
7. Postweld heat treatment: Temp. _____ °F Time _____
- Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.
8. Shell: SA-612 .673 0" 9' 1.346" 65' 11 3/8"
(MAT'L. SPEC., NO., GRADE) (NOM. THK. (IN.) (CORR. ALLOW (IN.) (DIAM. I.D. (FT. & IN.) (LENGTH (OVERALL) (FT. & IN.)
9. Seams: Welded Dbl. Butt Full 100% Welded Dbl. Butt Full 100% (6)
(LONG. WLD., DBL. BUTT) (R.T. (SPOT OR FULL) (EFF. (%) (H.T. TEMP. (°F) (TIME (GIRTH (WLD., DBL. BUTT) (R.T. (SPOT, PARTIAL, OR FULL) (NO. OF COUPLERS)
10. Heads: (a) Matl. _____ (b) Matl. _____
(SPEC. NO., GRADE) (SPEC. NO., GRADE)
- Seg. Seams: _____ H.T.: _____ R.T.: _____ EFF.: _____

	LOCATION (TOP, BOTTOM, EYES)	MINIMUM THICKNESS	CORROSION ALLOWANCE	CROWN RADIUS	NUCLEUS RADIUS	ELLIPTICAL RATIO	CERICAL APERTURE ANGLE	HEMISPHERICAL RADIUS	FLAT DIAMETER	SIDE TO PRESSURE (CONVEX OR CONCAVE)
(a)										
(b)										

If removable, bolts used (describe other fastenings) _____

(MAT'L. SPEC. NO., OR. SIZE, NO.)

11. Type of Jacket _____ Proof Test _____
12. Jacket Closure _____ If bar, give dimensions _____
(DESCRIBE AS GIVEN & WELD. BAR, ETC.)
13. MAWP _____ psi at max. temp. _____ °F. Min. temp. (when less than -20°F) _____
 Hydro., pneu., or comb. test press. _____ psi.
- Items 14 and 15 to be completed for tube sections

14. Tubesheets: STATIONARY MATL. DIAM. (IN.) NOM. THK. (IN.) CORR. ALLOW. (IN.) ATTACH. (WLD., BOLTED)
(SPEC. NO., GR.) (SUBJ. TO PRESSURE)
- FLOATING MATL. DIAM. (IN.) NOM. THK. (IN.) CORR. ALLOW. (IN.) ATTACH.
(SPEC. NO., GR.)

15. Tubes: MAT'L. (SPEC. NO., GRADE) O.D. (IN.) NOM. THK. (IN. OR GAUGE) NO. TYPE (STRAIGHT OR BENT)
(SPEC. NO., GRADE) (O.D. (IN.) (NOM. THK. (IN. OR GAUGE) (NO. (TYPE (STRAIGHT OR BENT)

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

16. Shell: MAT'L. (SPEC. NO., GR.) NOM. THK. (IN.) CORR. ALLOW. (IN.) DIAM. I.D. (FT. & IN.) LENGTH (OVERALL) (FT. & IN.)
(MAT'L. (SPEC. NO., GR.) (NOM. THK. (IN.) (CORR. ALLOW. (IN.) (DIAM. I.D. (FT. & IN.) (LENGTH (OVERALL) (FT. & IN.)
17. Seams: LONG. (WLD. DBL. BUTT) R.T. (SPOT OR FULL) EFF. (%) H.T. TEMP. (°F) TIME GIRTH (WLD., DBL. BUTT) R.T. (SPOT, PARTIAL, OR FULL) NO. OF COUPLERS
(LONG. (WLD. DBL. BUTT) (R.T. (SPOT OR FULL) (EFF. (%) (H.T. TEMP. (°F) (TIME (GIRTH (WLD., DBL. BUTT) (R.T. (SPOT, PARTIAL, OR FULL) (NO. OF COUPLERS)
18. Heads: (a) Matl. _____ (b) Matl. _____
(SPEC. NO., GRADE) (SPEC. NO., GRADE)

	LOCATION (TOP, BOTTOM, EYES)	MINIMUM THICKNESS	CORROSION ALLOWANCE	CROWN RADIUS	NUCLEUS RADIUS	ELLIPTICAL RATIO	CERICAL APERTURE ANGLE	HEMISPHERICAL RADIUS	FLAT DIAMETER	SIDE TO PRESSURE (CONVEX OR CONCAVE)
(a)										
(b)										

If removable, bolts used (describe other fastenings) _____

(MAT'L. SPEC. NO., GRADE, SIZE, NO.)

Form U-2 (Back)

19. MAWP _____ psi at max. temp. _____ °F. Min. temp. (when less than 20°F) _____ °F
Hydro., pneu., or comb. test press. _____ psi.

Items below to be completed for all vessels where applicable

20. Nozzles, Inspection and Safety Valve Openings:

[illegible]

21. Supports: Shirt yes or no Lugs yes Legs yes Other breaches Attached yes or no and how

22. Remarks: Assembly consists of (6) rings and (1) head. The head was manufactured at Trinity Industries, Inc. Plant #29 and a form U-2 partial data for this head was furnished and identified by the head serial number and is attached to the report.

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 conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

"U" Certificate of Authorization No. 11913 expires 5-14 19 85
 Date SEP 26 1983 name Trinity Industries, Inc. signed Sam Sullivan
(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 Employer's Casualty Co. of Dallas, Texas

have inspected the pressure vessel described in this Manufacturer's Partial Data Report on Sept. 26
19 83, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial 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 9-26-83 Signed Lemuel L. Summitt Commissions Texas R99
(AUTHORIZED INSPECTOR) (NAT'L. BOARD (INCL. ENDORS-
MENTS), STATE, PROV. AND NO.)

A200343

S/O H-1835
109"

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
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, Tex
(NAME AND ADDRESS OF MANUFACTURER) 76106

2. Manufactured for Trinity Industries, Inc. Dallas, Tex
(NAME AND ADDRESS OF PURCHASER)

3. Location of installation "Stock"
(NAME AND ADDRESS)

4. Type 835-78 S-40293 1983
(BOILER OR VESSEL TYPE) (PRESS. VESSEL NO. OR PART) (TERM) (DRAWING NO.) (MATERIAL SPEC. 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 1983
YEAR

1 AUGMENT (DAYS) 1 CODE CASE NO. 1 SPECIAL SERVICE PER UG 100(b)

6. (a) Drawing prepared by Trinity Industries Description of part inspected Hemispherical head

7. Postweld heat treatment: Temp. °F Time

Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

8. Shell: MATL. (SPEC. NO., GRADE) NOM. THK. (IN.) CORR. ALLOW. (IN.) DIAM. I.D. (PT. & IN.) LENGTH (OVERALL) (PT. & IN.)

9. Seams: LONG. (WLD., DEL., ENCL., LAP., BUTT) (SPEC. NO., GRADE) R.T. (SPOT OR FULL) EFF. (%) H.T. TEMP. (°F) VINE GIRTH (WLD., DEL., ENCL., LAP., BUTT) R.T. (SPOT, PARTIAL, OR FULL) NO. OF SEAMS

10. Heads: (a) Matl. SA-612 (SPEC. NO., GRADE) (b) Matl. (SPEC. NO., GRADE)

Seg. Seams: H.T.: R.T.: spot EN.: 85%

	LOCATION (TOP, BOTTOM, ETC.)	MINIMUM THICKNESS	CORROSION ALLOWANCE	CROWN RADIUS	NUCLEI RADIUS	ELLIPTICAL DATA	CIRCULAR APERTURE	HEMISPHERICAL RADIUS	FLAT DIAMETER	NO. TO PRESSURE (CONV. OR REMOVED)
(a)		.387"						51.673"		Concave
(b)								D.S. Rad		

If removable, bolts used (describe other fastenings) (MATERIAL, SPEC. NO., OR SIZE, NO.)

11. Type of Jacket Proof Test

12. Jacket Closure If bar, give dimensions
 If bolted, describe or sketch.

13. MAWP psi at max. temp. °F. Min. temp. (when less than -20°F) °F.
 Hydro., pneu., or comb. test press. psi.

Items 14 and 15 to be completed for tube sections

14. Tubesheets: STATIONARY MATL. (SPEC. NO., GR.) (SUBJ. TO PRESSURE) DIAM. (IN.) NOM. THK. (IN.) CORR. ALLOW. (IN.) ATTACH. (WLD., BOLTED)
 FLOATING MATL. (SPEC. NO., GR.) DIAM. (IN.) NOM. THK. (IN.) CORR. ALLOW. (IN.) ATTACH.

15. Tubes: MATL. (SPEC. NO., GRADE) O.D. (IN.) NOM. THK. (IN. OR GAUGE) NO. TYPE (STRAIGHT OR "U")

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

16. Shell: MATL. (SPEC. NO., GR.) NOM. THK. (IN.) CORR. ALLOW. (IN.) DIAM. I.D. (PT. & IN.) LENGTH (OVERALL) (PT. & IN.)

17. Seams: LONG. (WLD., DEL., ENCL., LAP., BUTT) R.T. (SPOT OR FULL) EFF. (%) H.T. TEMP. (°F) VINE GIRTH (WLD., DEL., ENCL., LAP., BUTT) R.T. (SPOT, PARTIAL, OR FULL) NO. OF SEAMS

18. Heads: (a) Matl. (SPEC. NO., GRADE) (b) Matl. (SPEC. NO., GRADE)

	LOCATION (TOP, BOTTOM, ETC.)	MINIMUM THICKNESS	CORROSION ALLOWANCE	CROWN RADIUS	NUCLEI RADIUS	ELLIPTICAL DATA	CIRCULAR APERTURE	HEMISPHERICAL RADIUS	FLAT DIAMETER	NO. TO PRESSURE (CONV. OR REMOVED)
(a)										
(b)										

If removable, bolts used (describe other fastenings) (MATERIAL, SPEC. NO., GRADE, SIZE, NO.)

Form U-2 (Rev. 1-22-64)

19. MAWF _____ psi at max. temp. _____ °F. Min. temp. (when less than -20°F) _____ °F
Hydro., pneu., or comb. test press. _____ psi.

Items below to be completed for all vessels where applicable

20. Nozzles, Inspection and Safety Valve Openings:

[illegible]

21. Supports: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
 (YES OR NO) (NO.) (NO.) (DESCRIPTION) (WHERE AND HOW)

22. Remarks: * Head segments are hot formed, 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 conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

"U" Certificate of Authorization No. 11,454 expires March 14, 19 64
Date 9-6-63 Co. name Trinity Industries, Inc.
(MANUFACTURER) (DEALER/EXPORTER)

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 Employers Casualty Co. of Dallas
have inspected the pressure vessel described in this Manufacturer's Partial Data Report on Sheet 6.

19 83 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial 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 9-6-83 Signed James L. Stewart Commissions Texas 899
(AUTHORIZED INSPECTOR) (NAT'L. BOARD INCL. ENDORSEMENTS, STATE, PROV. AND NO.)

A200343

S/O

109. 8

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
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, Tex
(NAME AND ADDRESS OF MANUFACTURER) 76106

2. Manufactured for Trinity Industries, Inc. Dallas, Tex
(NAME AND ADDRESS OF PURCHASER)

3. Location of installation Trinity Industries, Inc.
(NAME AND ADDRESS)

4. Type 836-06 S-40308 19 3
(DESIG. OR VESSEL TYPE) (PRESS. VESSEL NO. OF PART) (CORR.) (DRAWING NO.) (MATERIAL SPEC. NO.) (YEAR OR DATE)

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. 1980
YEAR

December 1982
ADDRESS (DATE)

CODE CASE NO.

SPECIAL SERVICE PER UG 110(d)

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

7. Postweld heat treatment: Temp. _____ °F Time _____

Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

8. Shell: _____
(MATERIAL SPEC. NO., GRADE) (NOM. THK. (IN.)) (CORR. ALLOW. (IN.)) (DIAM. I.D. (FT. & IN.)) (LENGTH (OVERALL) (FT. & IN.))

9. Seams: _____
(LONG. WELD, BEL. ENCL. LAP, BUTT) (R.T. (SPOT OR FULL)) (EFF. (%)) (H.V. TEMP. (°F)) (TIME) (RHTN (WELD, BEL. ENCL. LAP, BUTT)) (R.T. (SPOT, PARTIAL, OR FULL)) (NO. OF COURSES)

10. Heads: (a) Matl. SA-612 (b) Matl. _____
(SPEC. NO., GRADE) (SPEC. NO., GRADE)

Seg. Seams: _____ H.T.: _____ R.T.: SPOT EN.: 85%

LOCATION (TOP, BOTTOM, CORN.)	MINIMUM THICKNESS	CORROSION ALLOWANCE	SEAM LOSS	REINFORCE RADIUS	ELLIPTICAL RATIO	CONICAL APERT. ANGLE	HEMISPHERICAL RADIUS	FLAT DIAMETER	NOTE TO PRESSURE (CONVEX OR CONCAVE)
(a)	<u>.387"</u>						<u>54.678"</u>		<u>Concave</u>
(b)							<u>O.S. Rad</u>		

If removable, bolts used (describe other fastenings) _____

(MATERIAL SPEC. NO., OR, SIZE, NO.)

11. Type of Jacket _____ Proof Test _____

12. Jacket Closure _____ If bar, give dimensions _____
(DESCRIBE AS WELD, BAR, ETC.)
If bolted, describe or sketch.

13. MAWP _____ psi at max. temp. _____ °F. Min. temp. (when less than -20°F) _____ °F.
Hydro., pneu., or comb. test press. _____ psi.

Items 14 and 15 to be completed for tube sections

14. Tubesheets: _____
(STATIONARY MATERIAL SPEC. NO., OR.) (DIAM. (IN.)) (NOM. THK. (IN.)) (CORR. ALLOW. (IN.)) (ATTACH. (WELD, BOLTED))
(FLOATING MATERIAL SPEC. NO., OR.) (DIAM. (IN.)) (NOM. THK. (IN.)) (CORR. ALLOW. (IN.)) (ATTACH.)

15. Tubes: _____
(MATERIAL SPEC. NO., GRADE) (O.D. (IN.)) (NOM. THK. (IN. OR GAUGE)) (NO. TYPE (STRAIGHT, OR U-T))

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

16. Shell: _____
(MATERIAL SPEC. NO., OR.) (NOM. THK. (IN.)) (CORR. ALLOW. (IN.)) (DIAM. I.D. (FT. & IN.)) (LENGTH (OVERALL) (FT. & IN.))

17. Seams: _____
(LONG. WELD, BEL. ENCL. LAP, BUTT) (R.T. (SPOT OR FULL)) (EFF. (%)) (H.V. TEMP. (°F)) (TIME) (RHTN (WELD, BEL. ENCL. LAP, BUTT)) (R.T. (SPOT, PARTIAL, OR FULL)) (NO. OF COURSES)

18. Heads: (a) Matl. _____ (b) Matl. _____
(SPEC. NO., GRADE) (SPEC. NO., GRADE)

LOCATION (TOP, BOTTOM, CORN.)	MINIMUM THICKNESS	CORROSION ALLOWANCE	SEAM LOSS	REINFORCE RADIUS	ELLIPTICAL RATIO	CONICAL APERT. ANGLE	HEMISPHERICAL RADIUS	FLAT DIAMETER	NOTE TO PRESSURE (CONVEX OR CONCAVE)
(a)									
(b)									

If removable, bolts used (describe other fastenings) _____

(MATERIAL SPEC. NO., GRADE, SIZE, NO.)

MAR 15 1984

19. MAWP _____ psi at max. temp. _____ °F. Min. temp. (when less than -20°F) _____ °F.
Hydro., pneu., or comb. test press. _____ psi.

Items below to be completed for all vessels where applicable

20. Nozzles, Inspection and Safety Valve Openings:

[illegible]

21. Supports: Shirt yes or no Lugs no Legs no Other breastplate Attached where and how

22. Remarks: * Head segments are hot formed, double butt welded
spot X-rayed seams with joint efficiency of 85%
.187" 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 conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

"U" Certificate of Authorization No. 11,454 expires March 14, 19 84
Date 7-26-83 Co. name Trinity Industries, Inc.
MANUFACTURER R-L
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 Employers Casualty Co. of Dallas

have inspected the pressure vessel described in this Manufacturer's Partial Data Report on July 27, 1983, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial 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 7-27-83 Signed Donald K. Bryant Commissions Texas 899
(AUTHORIZED INSPECTOR) (NAT'L. BOARD (INC. INSURANCE) STATE, PROP. ACC. SS.)