

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

1. Manufactured and certified by De Dietrich, 1 rue d'Offwiller, 67110 Zinswiller, France
(Name and address of manufacturer)
2. Manufactured for _____
(Name and address of purchaser)
3. Location of installation American Cyanamid Company Princeton, New Jersey
(Name and address)
4. Type Vertical 34927 N/A CTJ 200-003 5631 1990
(Horizontal or vertical tank) (Mfg. serial No.) (CRN) (Design) (Mat'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 1989
Year
- N/A N/A Lethal service (inner vessel)
Addenda (date) Code Case No. Special service per UG 126(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA 285 B 5/16" N/A 3 ft. 7-5/16" O.D. 2 ft. 6-5/8"
(Mat'l. Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (in.)) (Length (Overall) (ft. & in.))
7. Seams: Welded, Dbl. Butt Spot **85 N/A
(Long. (Dbl., Singl.)) (RT (Spot or Full)) (HT (in.)) (HT Temp. (°F))
- N/A Welded, Dbl. Butt Spot 1
(Time) (Grth (Dbl., Singl.)) (RT (Spot, Partial or Full)) (No. of Courses)
8. Heads: (a) Mat'l. SA 285 B (Spec. No., Grade) (b) Mat'l. N/A (Spec. No., Grade)

	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)	Bottom	11/32"	N/A	43-5/16"	4-21/64"	N/A	N/A	N/A	N/A	Concave
(b)										

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

9. Type of Jacket Type 2, per Fig. 9.2 Proof Test N/A
10. Jacket Closure Fig. 9.5 (b-2) & Fig. 9.6 (e-1) If bar, give dimensions N/A If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)
11. MAWP 100 or 100 & F.V. psi at max. temp. 500 °F. Min. design metal temp. -20 °F at 100 psi.
Hydro. ~~pressure~~ test press. 150 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: N/A
Stationary Mat'l. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach (Welded, Bolted)
- N/A
Floating Mat'l. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach
13. Tubes: N/A
Mat'l. (Spec. No., Gr.) O.D. (in.) Nom. Thk. (in. or Gauge) Number Type (Straight or U)

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: SA 285 B 35/64" N/A 3 ft. 3-3/8" O.D. 2 ft. 5-7/16"
(Mat'l. Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (in.)) (Length (Overall) (ft. & in.))
15. Seams: Welded, Dbl. Butt Full **1.0 *
(Long. (Dbl., Singl.)) (RT (Spot or Full)) (HT (in.)) (HT Temp. (°F))
- * Welded, Dbl. Butt Full 1
(Time) (Grth (Dbl., Singl.)) (RT (Spot, Partial or Full)) (No. of Courses)
16. Heads: (a) Mat'l. SA 285 B (Spec. No., Grade) (b) Mat'l. SA 285 B (Spec. No., Grade)

	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)	Bottom	35/64"	N/A	39-3/8"	3-15/16"	N/A	N/A	N/A	N/A	Both
(b)										

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

17. MAWP 100 & F.V. psi at max. temp. 500 °F. Min. design metal temp. -20 °F at 100 & F.V. psi.
Hydro. ~~pressure~~ test press. 150 psi.
- (12/87) 423.029

This Form (E001081) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07607-2300

1997-1998-1999

[illegible]

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: cover furnished by De Dietrich, certified on Form U-2

****See attached sketch. Vessel hydrotested with standard cover. I/O = Inlet/Outlet. No impact testing required as per UG-25 (f) and UCS-66 (b). Safety relief valve to be supplied and installed by customer as per UG-125 (h). 3 Liftings lugs welded on jacket shell. Glass lined steel vessel for chemical use.**

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.

Vessel constructed by De Dietrich at Zirndorfer, France

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 New York and employed by Royal Insurance

of Charlotte, North Carolina have inspected the pressure vessel described in this Manufacturer's Data Report on December 18, 19 90, 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 19 Dec. 1959 Signed [Signature] Commissions N.B. 9354

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19____.

Date _____ Co. name _____ Signed _____
(A number that identifies and certifies both) (By Representative)

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 _____ and employed by _____

_____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the

certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure

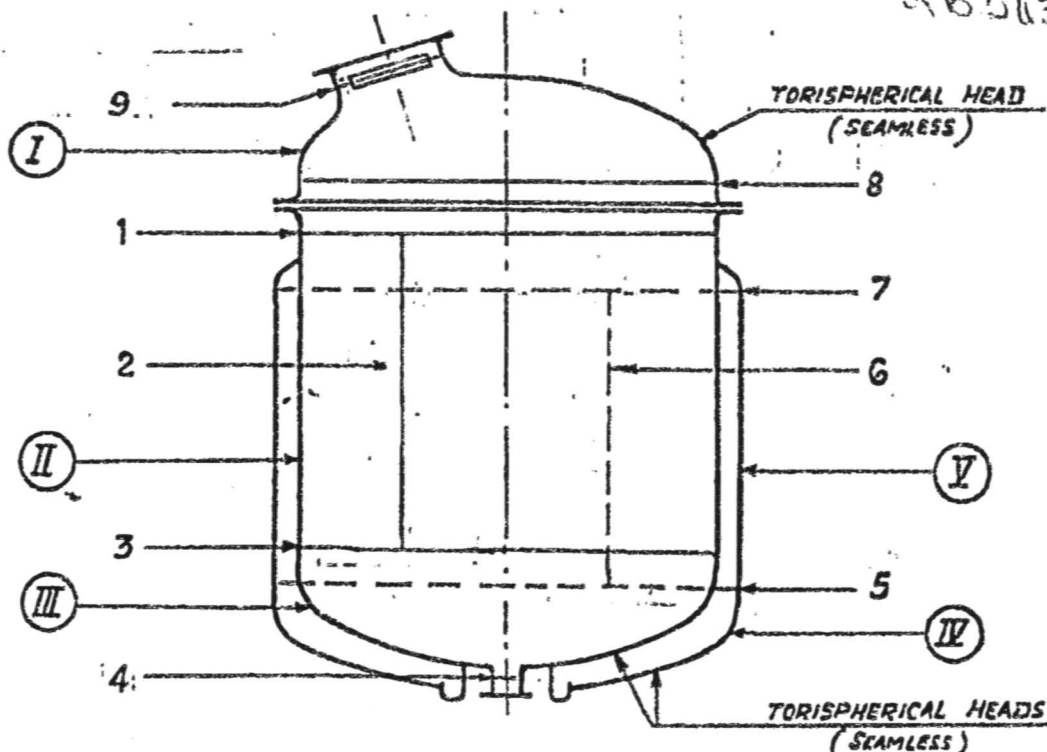
vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ Commissions _____

(Inspector's Name, License Number, and State)



485131



JOINT Nr.	RADIOGRAPHIC EXAMINATION	JOINT CATEGORY	JOINT TYPE	JOINT EFF. (TABLE UW-12)	CODE REF.
1	FULL	C	1	1.0	UW-11 (a) (1)
2	FULL	A	1	1.0	UW-11 (a) (1)
3	FULL	B	1	1.0	UW-11 (a) (1)
4	FULL (1)	C	1	1.0	UW-11 (a) (4)
5	SPOT	B	1	0.85	UW-11 (a) (5) (b)
6	SPOT	A	1	0.85	UW-11 (b)
7	NONE	B	2	0.65	UW-11 (c)
8	FULL	C	1	1.0	UW-11 (a) (1)
9	FULL (1)	C	1	1.0	UW-11 (a) (4)

NOTE 1 : NO RADIOGRAPHY FOR BUTT WELDS IN NOZZLES THAT NEITHER EXCEED 10" N.P.S. NOR 1 1/2" WALL TH.

RESULTANT JOINT DESIGN EFFICIENCIES

PART OF VESSEL		JOINT GOVERNING	EFFICIENCY	CODE REF.
I	COVER HEAD	1	1.0	UW-12 (a)
II	VESSEL SHELL	2	1.0	UW-12 (a)
III	VESSEL BOTTOM HEAD	3	1.0	UW-12 (a)
IV	JACKET HEAD	5	1.0	UW-12 (d)
V	JACKET SHELL	6	0.85	UW-12 (b)