

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 & Cie, 1 rue d'Offwiller, 67110 Zinswiller, France
(Name and address of manufacturer)

2. Manufactured for _____
(Name and address of purchaser)

3. Location of installation Jones-Hamilton Company Newark, California
(Name and address)

4. Type Vertical 33233 N/A CL 800-065 A 3871 1985
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing) (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 1985
Year

Winter 84 N/A N/A
Addenda (date) Code Case No. Special service per UG-120(d)

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

6. Shell: SA 285 B 25/64" N/A 2 ft. 7-1/2" O.D. 1 ft. 10-15/32"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) (Length (Overall))(ft & in.)

7. Seams: Welded, Dbl. Butt Spot 85 *
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F)

* Welded, Dbl. Butt Partial 2
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA 285 B (b) Matl. SA 285 B
(Spec. No., Grade) (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)	<u>Top</u>	<u>25/64"</u>	<u>N/A</u>	<u>31-1/2"</u>	<u>3-9/32"</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Concave</u>
(b)	<u>Bottom</u>	<u>25/64"</u>	<u>N/A</u>	<u>31-1/2"</u>	<u>3-9/32"</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Concave</u>

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

9. Type of Jacket N/A Proof Test _____

10. Jacket Closure N/A If bar, give dimensions _____ If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)

11. MAWP 100 & F.V. psi at max. temp. 300 °F. Min. temp. (when less than -20° F) N/A °F.
Hydro., pneu., or comb. test press. 110 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: N/A
Stationary Matl. (Spec. No., Gr.) _____ Diam. (in.) (Subject to pressure) _____ Nom. Thk. (in.) _____ Corr. Allow. (in.) _____ Attach. (Welded, Bolted) _____

_____ Floating Matl. (Spec. No., Gr.) _____ Diam. (in.) _____ Nom. Thk. (in.) _____ Corr. Allow. (in.) _____ Attach. _____

13. Tubes: N/A
Matl. (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: N/A
Matl. (Spec. No., Grade) _____ Nom. Thk. (in.) _____ Corr. Allow. (in.) _____ Diam. I.D. (ft & in.) _____ Length (Overall)(ft & in.) _____

15. Seams: N/A
Long. (Dbl., Sngl.) _____ R.T. (Spot or Full) _____ Eff. (%) _____ H.T. Temp. (F) _____

_____ Time _____ Girth (Dbl., Sngl.) _____ R.T. (Spot, Partial, or Full) _____ No. of Courses _____

16. Heads: (a) Matl. N/A (b) Matl. _____
(Spec. No., Grade) (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)										
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

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

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet	1	6"	Obt. Butt Girth SA 181-60		25/64"	None	Welded	N/A
Outlet	1	12"	Obt. Butt Girth SA 181-60		25/64"	None	Welded	N/A

19. Supports: Skirt no Lugs 3 Lifting 0 Legs 0 Other 4 side support Attached lugs Welded on heads
(Yes or no) (No.) (No.) (Describe) (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A
(Name of part, item number, mfg's. name and identifying stamp)

*Vessel H.T. at high temperature for extended period of time due to glass lining process.
Section I and section II are clamped together with 28 clamps, 7/8" dia, SA 449
Safety relief valve to be supplied by customer.
Glass lined steel column for chemical use.

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. 11716 expires April 16, 19 86
 Date January 3, 1986 Co. name De Dietrich & Cie (Manufacturer) Signed WAGNER R. C.C. Manager (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by De Dietrich & Cie at Zineviller, 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 The Royal Indemnity Company of New York, N.Y. have inspected the pressure vessel described in this Manufacturer's Data Report on December 17, 19 85, 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 JAN. 3, 1986 Signed Martin KOENIG (Authorized Inspector) Commissions N.B. 9334 (Nat'l Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

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 _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY 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 _____ 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 _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov., and No.)

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

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(Name and address of manufacturer)

2. Manufactured for _____
(Name and address of purchaser)

3. Location of installation Jones-Hamilton Company Newark, California
(Name and address)

4. Type Vertical 33233 N/A CL 800-065 A 3871 1985
(Horiz. or vert., tank) (Mfg's serial No.) (CRN) (Drawing) (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 1983 Year

Winter 84 N/A N/A
Addenda (date) Code Case No. Special service per UG-120(d)

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

6. Shell: SA 285 B 25/64" N/A 2 ft. 7-1/2" O.D. 1 ft. 10-15/32"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (Overall) (ft & in.)

7. Seams: Welded, Dbl. Butt Spot 85 *
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F)

* Welded, Dbl. Butt Partial 2
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA 285 B (b) Matl. SA 285 B
(Spec. No., Grade) (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)	Top	25/64"	N/A	31-1/2"	3-5/32"	N/A	N/A	N/A	N/A	Concave
(b)	Bottom	25/64"	N/A	31-1/2"	3-5/32"	N/A	N/A	N/A	N/A	Concave

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

9. Type of Jacket N/A Proof Test _____

10. Jacket Closure N/A If bar, give dimensions _____ If bolted, describe or sketch _____
(Describe as ogee & weld, bar, etc.)

11. MAWP 100 & F.V. psi at max. temp. 500 °F. Min. temp. (when less than -20° F) N/A °F.
Hydro., pneu., or comb. test press. 110 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: N/A
Stationary Matl. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach (Welded, Bolted)

N/A
Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach

13. Tubes: N/A
Matl. (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: N/A
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam I.D. (ft & in.) Length (Overall) (ft & in.)

15. Seams: N/A
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F)

N/A N/A N/A
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

16. Heads: (a) Matl. N/A (b) Matl. _____
(Spec. No., Grade) (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)										
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

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

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet	1	6"	Db1, Butt Girth	SA 181-60	25/64"	None	Welded	N/A
Outlet	1	12"	Db1, Butt Girth	SA 181-60	25/64"	None	Welded	N/A

19. Supports: Skirt no Lugs 5 0 Other 4 side support Attached lugs Welded on heads
(Yes or no) (No.) (No.) (Describe) (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A
(Name of part, item number, mfg's. name and identifying stamp)

- *Vessel H.T. at high temperature for extended period of time due to glass lining process.
- Section I and section II are clamped together with 28 clamps, 7/8" dia. SA 449
- Safety relief valve to be supplied by customer.
- Glass lined steel column for chemical use.

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. 11718 expires April 16, 19 86
 Date January 3, 1986 Co. name De Dietrich & Cie Signed WAGNER R. O.C. / Manager
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by De Dietrich & Cie at Zinswiller, 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 The Royal Indemnity Company of New York, N.Y. have inspected the pressure vessel described in this Manufacturer's Data Report on December 17, 19 85, 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 JAN. 3, 1986 Signed Martin KOENIG Commissions N.B. 9354
(Authorized Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

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 _____
(Assembler that certified and constructed field assembly) (By Representative)

CERTIFICATE OF FIELD ASSEMBLY 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 _____ 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 _____
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov., and No.)