1303

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

| 1. Manufactured by Superior Welding Co., 900 E. Division, Decatur, III 62526 |
|--|
| 2. Manufactured for Monsanto Co., P.O. Box 7239, St. Louis, No 63177 |
| 3. Location of Installation Monsanto Company, Chocolate Bayou, Alvin, Texas 775118 |
| 4 Type Vert. Tank Vessel No. — 75172-C |
| (Horiz, or vart. tank) (Migr's Serial No.) (CRN) (Drawing), 13 = 14175 Vear Built 1976 |
| (Nat'l Brd No.) |
| 5. The chemical and physical properties of all parts meat 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 DESIGNATION OF THE PROPERTY OF TH |
| sion 1 1974 and Addenda to 6-30-75 and Code Case no. |
| Special service per UG-120(d) Inner vessel for Lethal Service. |
| Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for |
| the following items of the report: Coils 2201-F3,2201-G3,2201-B3,2201-C3,2201-D3, 1211 College |
| (Name of part, item number, mfgr's name and identifying stamp) |
| 18 Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers 6. Shell: Materia SA - 285 - C. PVQ Nominal Thickness - 55000 - jn 6 Corrosion Allowance - 1116 in 8 |
| 4 (Spac No. Grada) |
| Diam. 4 ft 8 1D in, Length 0 ft 8 in. |
| CERTIFICATE OF 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. Bivision 1 Date 3 12 7 Signed Superior Welding Co. by |
| "U" Certificate of Authorization No. 1900 (Manufacturer) expires 3-30 (Representative) 13 793 |
| CERTIFICATE OF SHOP INSPECTION |
| Vessel made by Superior Welding Co. at Decatur, Ill |
| t, 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 Hartford S.B.R.& I. Co. of Hartford, Conn. have inspected the pressure vessel described in this Manufacturers' Data Report on |
| of Hartford, Conn. have inspected the pressure vessel described in this Manufacturers' Data Report on 3-12-19 76, 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 Manufacturers' 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 Sinned Franciscons Nat'1 Bdl 7818 |
| Signed (Inspector) (Inspector) (Nat'l Board, State, Province and No.) |
| CERTIFICATE OF COMPLIANCE FOR FIELD WORK |
| We certify that the statements made in this report are correct and that all details of design, material, construction, and |
| workmanship of this vessal conform to the ASME Code for Pressure Vessals, Section VIII, Division 1. Date |
| (Manufacturer) (Representative) |
| "U" Certificate of Authorization Noexpires |
| |
| t, 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 Manufacturers' 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 vassel in accordance with ASME Code, Section VIII, Division 1. |
| The described vessel was inspected and subjected to a hydrostatic test ofpsi. |
| By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the |
| pressure vessel described in this Manufacturers' 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 ansing from or connected with this inspection. |
| Date |
| Signed Commissions |
| (Authorized Inspector) (NaCl Board, State, Province and No.) |

| | 7. 5 | Seams: Longitudina | wld-sr | gl-butt | | | pot | Efficiency | <u>85 %</u> |
|------------|-----------|--|--------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------|-------------------------------|--------------|
| | | i.T. Temp | (10 | (eloto, par., 51124 cap | , 8011) Girth1 | ione | (Spot or Full) | | |
| • . | | • | - " | | | (7) | velded, Obl. Sngl. (| .ap. 8un) | |
| - | | | rtial, or Full) | No. of Courses . | | | | | |
| | 8. | Heads: (a) Materia | 1 SA=200 | (Spec. No., Grade) | (| b) Material | (Sper | : No., Grade) | |
| | | Location | | Minimum | | · Crow | | | lliptical . |
| | | (Top, Bottom | , Ends) | Thickness | Allowance | Radiu | | | Ratio · |
| | | (a) Bottom | | 5/16" | 1/16" | | <u>3–3</u> | /4 | |
| | | (b) | | | | - ` | | | · |
| | • | Conical Apax Angl | | Hamispharical Radius | | Flat Diameter | _ | ide to Pressu nvex or Conc | - |
| | • | - Apar Aligi | | | | | | | <u> </u> |
| | • | (a) | | | | | | | |
| | | (b) | | , Secretary of the Control | | | , | | |
| | | ff removable, boits | | other fastenings) . | | • | • • • | | |
| | | Type of Jacket | , , | | | (Material) | Spec No., Gr., Siz | | _ |
| | | Jacket Closure | Bar. W | elded | If | bar, give dir | nensions 1". | thk, x | 1-1/16 |
| | | | (Describe | as ogee & weld, bar, i | etc.) | • | | | • |
| | | # boited, describe Constructed for ma | | rorking pressure | 50 | psî at max. ter | np. 59 | F _ Min. | temp. (when |
| | | less than -20 F) | | F Hydrostat | tic, <u>Politectet</u> ix | ನರಂದರನ | Eggest pressure. | 75 | psi. |
| see | : Item | s 12 and 13 to be a | completed for | ankamak ir | nternal | | | | |
| ks | 12, 1 | Fubasheets: Statio | naryMateria | (Spec | : No. Gr.) | Diam. | · (Subje | ct ta pressure) | in_ |
| | | Nominal Thickness | | In. Corrosion Alle | owance | in. A | Attachment | (Welded, B | oltedi |
| | , | Flosting—Material | | Na. Gr.) | Diam | in. | | | |
| | | Naminal Thickness | • • | in. Corrosion / | Allowance | i: | n. | | |
| | | Attachment | | | 2.55 | <u> </u> | | | |
| . Co | ils13. | CXXXXMaterial_S | A-312-3 | 04 SMLS 0.0 | 1.315 | in. Nomi | inat Thickness | _133 | in or gauge |
| • | | Number | Isber M | Type | | | | | Janeary. |
| | | | completed for | inner chambers of | (Straight or "L | | ````````` | · · | |
| | 14 | Shell: Material S'A | 240 30 | 4 Nominal Ti | jackaleu vassi hicknass — | 3/8 ia | Corresion Alice | wance _1. | '32 in |
| ÷ | | | (Spec No. C | 1.1 | _ | | 3 | | |
| ٠. | 46 | Diam. 4 | R <u>V</u> | <u>OD</u> in Lei 51-birt | ngth | T | 3 f ₁₁ 11 | - Efficiency | 100 % |
| | | | | bl-butt Welded, Dbl, Sngl, Le | p. Butt) | | (Spat or Full) | | **** |
| | | H.T. Temp | F T | īme —— | Girth W1 | W-GDI-D | /elded, Obl., Sng), | Lap. 3vm) | · · · · |
| | | R.T. <u>full</u> | artial or Full) | No. of courses | | <u>-</u> | | | |
| : . | 16. | Heads: (a) Material | SA-240 | -304 | | _(b) Material _ | | ···· | · . |
| • | | Locatio | | (Spec. No., Grade) Minimum | Corresion | Crow | | ec. No., Grade) | Elliptical . |
| | | (Top, Bottom | | Thickness | Allowance | Radiu | | | Ratio |
| | • | (a) Top | | 3/16 | 1/32 | 54 | . 3 | -3/4 | |
| | | Bottom | | 3/16 | 1/32 | 54 | 3 | -3/4 | |
| ÷ | · . | Conical | 71. Ç | Hemisoherical | : | Flat | | ide to Pressi | |
| | · · · · · | Apex Angl | å | Radius | • | Diameter | . (Co | nvex or Con | :ave) |
| • • | | (a) | | | | | | concav | |
| • | | (ъ) | | | | | | ave & c | onvex |
| | 1 | f removable, bolts | used (describe | other fastenings) . | <u>SA-193-</u> | B7,7/81 | <u>0 56</u> 56€ No. Gr. Si | e. No.1 | |
| | 17.: 0 | Constructed for ma | x, allowable w | orking pressure | 30 | psi at max tem | 5pic No. Gr., St. 158 | F. Min. | temp. (when |
| | | | | F. Hydrostatic,2000 | | test polygerical | pressure 45 | psi | |
| | | tems below to be | completed for | all vessels where a | | | چے کی م مارکوں مارکوں | · · · · · · · · | "श्रीसम्दित् |
| ** | 18. : | Safety Valve Outlet | ts: Nümber 🕮 | | Size | | Location | | |
| | 19. | Nozzies: "Dale | ry varv | es in exte Diam. | tuar br | | | forcement | How |
| <i>:</i> • | | (Infet, Outlet, Dra | in) Numbe | | ypa Mat | | | faterial | Attached |
| | Coll | In & Out | 14 | l" Noz | 7 54-3 | 12-304 | Sch.408 | | Welde |
| • | There | | | | <u></u> | | Sch.805 | | u |
| • | | s & Outle | ts3_ | 2" " | | 11 | tr | | 11 |
| | Sparg | er Inlet | | 2" !"_ | | | Sch_40S | | |
| | 20. 1 | nspection Opening | s:Top he | ad removab | le for | access | for insp | • | |
| | | Manholes No | | Size | <u> </u> | Location | | | |
| | | Handholes No | · | Size | | _Location | | | |
| | | Threaded No | | Size | | _Location | | | |
| | 21. 3 | Supports: Skirt | A | 1105 4 (110.) | _Legs(| No.) | , | (Describe) | , |
| | | | ded to | | (Where | and how) | | | <u> </u> |
| | 22. | Remark Used | as Reac | tor. Conte | nts unk | nown to | <u>fabrica</u> | tor. In | mer ve |
| | | Lethal se | rvice: | IW-2(a)_HW | 7-1 L(a)(| $1)$ _ ϵ _UC | :S=79(d)(| .41(a). | ···· |
| | | <u> *Coil des</u> | ign;50_ | <u>PSIG at 11</u> | OF no | corrosi | | ance. | Welde |
| ** | Keliei | & Spare | 2 | 4" Nozz | <u>SA-312</u> | <u>-304 S</u> | cn. 805 | | METRE |