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

| 1. | Manufact | ured an | d certifie | ed by | | | | | | | | | | | | | | | |
|-----|---|--|---------------|--------------------|-----------------------------|------------------------|-------------------------|--|---------------------|---|-------|-------------------------------|--------------------------------------|-----------------|-------------|---------------------------------|-----------------------------|-----------------|--|
| | | | | | | | | | (Na | me and ad | dress | s of Manufact | urer) | | | | | | |
| 2. | Manufact | ured for | | | | | | | ame and | l address o | f Pur | chaser) | | | | | | | |
| 3. | Location | ocation of installation | | | | | | | | | | | | | | | | | |
| | - | | | (Name and address) | | | | | | | | | | | | | | | |
| 4. | 4. Type (Horizontal, vertical, or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Manufacturer's serial number of the control of the contro | | | | | | | | | number) | | | | | | | | | |
| | (CRN) (Drawing number) | | | | | | | | | | _ | | (National Board number) (Year I | | | | | | |
| 5. | ASME Co | de. Sect | tion VIII. | Div. 1 | | | | | | | | | | | | | | | |
| | 5. ASME Code, Section VIII, Div. 1 [Edition and Addenda, if applicable (date)] (C | | | | | | (Code | ode Case number) [Special service per UG-120(d)] | | | | | | | | | | | |
| | | | • | | | essels, jad | | | | | | | anger | s, or ch | amber of | multicl | hamber | vessels. | |
| 6. | Shell: (| | | ourse(s) _ | | | | | | length _ | | | • • • | I | | - a a I | | | |
| No. | Diar | Course(s) Diameter | | ength | Material Spec./Grade or Typ | | | Nom. | ckness | rr. Tv | pe | ng. Joint (Cat Full, Spot, | Eff. | Type | Full, Spot, | | Temp. | eatment Time | |
| | | | | J. | | 7,1 | | - | | - | | None | | 71 | None | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | 1 | | | Body | Flanges o | n Shells | i | T | | | | Bolting | | | | |
| No. | Type | ID | OD | Flange Thk | Min Hub Thk | Material | | How Att | tached | Location | N | Num & Size | Boltir | ng Materia | W | Washer (OD, ID, thk) | | er Material | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 7. | Heads: (a | | | | | | | | | (b) | | | | | | | | | |
| | 1 | | | | nber, grade or | | pe) (H.T. — time and te | | | | | (Material sp | ec. number, grade or type) (H.T. — t | | | | time and temp.) Category A | | |
| | Location (*Bottom, E | | Thick Min. | Corr. | Crown | Radius Knuckl | | | Conical ex Angle | Hemis Radiu | | | | | Concave | | | ot, Eff. | |
| (a) | | + | | | | | | \vdash | | | | | + | $\neg \uparrow$ | | | Non | 9 | |
| (b) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Во | dy Flange | s on He | ads | | | | | | | | | |
| | | _ | | 0.0 | | | | | Hav | Attachad | | Norman & Cinn | Polt | ing Materi | | Vasher | | | |
| (a) | Location | Туре | ID | OD | Flange Thk | Min Hub Thk | IVI | aterial | по | w Attached | - 1 | Num & Size | | ing wateri | ai (OD | I (OD, ID, thk) | | Washer Material | |
| (b) | | | | | | | | | | | | | | | | | | | |
| 8 | Гуре of ja | cket | | | | | | | Jack | et closu | re _ | | | | ogee and w | | | | |
| | f bar, give | dimen | sions. If | bolted, c | lescribe or | sketch | | | | | | | (L | escribe as | ogee and w | veld, bar, e | tc.) | | |
| | MAWP _ | | | | t max. ten | | | | | | des | ign metal | temp | | | at | | | |
| 10. | Impact te | | | ternal) | | | (Internal) | | ernal) | | | a | t test | temper | ature of | | | | |
| | | | | est press | | or <i>no</i> and the o | | | | | | | | • | | | | | |
| | | | | • | ıbe sectior | | | · | 10011 | | | | | | | | | | |
| | Tubeshee | t | • | | | | | | (1) | 1.11.1 | , | | | | | | | | |
| | | [Statio | onary (mate | erial spec. no | o.)] [Dian | neter (subject t | to press.)] | | (Nomir | al thicknes | s) | (Corr. allow.) | | | | [Attachment (welded or bolted)] | | | |
| 13 | Tubes | [Floa | iting (mate | rial spec. no. |)] | (Diameter) |) | 1) | Nominal | thickness) | | _ | (Corr. | allow.) | | (A | ttachment |) | |
| ٠٠. | | aterial spe | ec. no., grad | de or type) | | (O.D.) | | (N | ominal t | hickness) | | | (Nur | nber) | | [Type | (straight | or U)] | |

| Dogo | o.f | |
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| Page | o† | |

| /lan | ufactureı | 's Seri | al No |) | | | | CRN | | | | | Na | tional Bo | ard N | 0 | | | | |
|------|-------------------------|----------|----------|----------|---------------|----------------------|--------------|------------|------------|---------|--|---------------|-------|-------------------------------|------------------|------------------|-------------------|-------------------------------|------------|---------|
| | | | | | | inner chai | | | | | | | | | ers. | | | | | |
| . S | hell: (a |) No. c | of cou | ırse(s | 3) | | | | (b) O | erall | length | | | | | | | | | |
| | Course(s) Material | | | | | | _ | Thickness | | | Long. Joint (Cat. A) Pull, Spot, Eff. | | | Circum. Joint (Cat. A, B & C) | | | Heat Treatment | | | |
| lo. | Diameter | | + | Length | | Spec./Grade or Type | | | Nor | | Corr. | Тур | oe | Full, Spot, None | | Туре | None | Eff. | Temp. | Time |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | ody Flone | | Challa | | | | | | <u> </u> | | | |
| | | | | | | | | В | ody Flang | es on | Snells | | | | | | Bolting | | | |
| 0. | Туре | ID | (| OD | Flange Thk | Min Hub Th | ık N | laterial | Ho | w Attac | hed L | ocation | Nu | ım & Size | Boltin | g Materia | Washer | | Washer | Materi |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| . н | leads: (a) | | | | | | | | | | (b |) | | | | | | | | |
| | | | 1) | Materia | al spec. num | nber, grade, o | or type) (H. | Г. — time | and temp.) | | | | (| Material sp | ec. num | ber, grade | e, or type) (H | .T. — time | and temp.) | |
| | Location (| | | Thick | | | | | Elliptical | · | | | | | | Side to Pressure | | Category A Full, Spot, Fff | | |
| | Bottom, Er | nds) | Min | i. | Corr. | Crow | n Kı | nuckle | Ratio | Apex | Angle | Radius | | Diameter | Co | onvex | Concave | Туре | None | t, Eff |
| a) | | | | \dashv | | | | | | _ | | | + | | + | | | | | - |
| b) | | | | ! | | | | | | | | | | | | | | | | |
| _ | | | | | | | | | Body Fla | nges o | n Heads | 3 | 1 | | | | Bolting | | | |
| | Location | Тур | | ID | OD | Flange The | Min Hub | Γhk | Material | | How A | ttached | Nu | m & Size | Bolting Material | | . W | Washer (OD, ID, thk) | | r Mater |
| a) | | 71 | | | | 3 3 3 | | | | | | | | | | | (127,127,1111) | | | |
| b) | | | | | | | | | | | | | | | | | | | | |
| V | IAWP _ | | | | | t max. ter | mp | | | _ | N | /lin. des | sign | metal te | mp | | | at | | |
| 1 | | (Interna |) | (Exte | ernal) | | | (Internal) | (E | xterna | 1) | | | 0.5 | +oot + | omnore | ture of _ | | | |
| | pact tes | | | | _ | ndicate <i>yes</i> o | | • | | act tes | ted] | | | a | ເຮຣເເ | empera | ture or _ | | | |
| | | | | | | ire | | | | Pro | of test | | | | | | | | | |
| | | specti | on, a | ind sa | afety valv | /e openin | gs: | | | | | | | 1 | | | | | т | |
| (In | Purpose let, Outlet, | | , l | | neter Size | T | NII | Materi | 1 | | _ | Nozzle Thickn | | Relillor | cement | | ttachment Details | | Loca | |
| | rain, etc.) | | No. | 01 | O I Z C | Туре | Nozzle | | Flan | ge | No | m. C | Corr. | ivia | erial | INC | ozzle F | lange | (Insp. C | pen.) |
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| S | upports: | Skirt . | (Yes c | or no) | Lugs _ | (Number) | Legs _ | (Number) | _ Othe | rs | | Describe |) | Atta | ched | | (W | here and | how) | |
| | | | | | | s properl | | | | | | | | | | | | | | ems |
| | | | | | | | er, Manu | | | | | | | | | | | | | |

22. Remarks

FORM U-1 Page _____ of _____

| Manufactured by | | | | | | | |
|--|--|----------------------------------|--|--|--|--|--|
| Manufacturer's Serial No | CRN | National B | National Board No | | | | |
| | | | | | | | |
| | CERTIFICATE OF SHO | OP COMPLIANCE | | | | | |
| We certify that the statements in this re | eport are correct and that all deta | ails of design, material, co | nstruction, and workmanship of this vessel | | | | |
| conform to the ASME BOILER AND PRE | SSURE VESSEL CODE, Section V | III, Division 1. | | | | | |
| U Certificate of Authorization Number _ | Expi | ires | | | | | |
| Date Name | | Signed | (Representative) | | | | |
| | | | (Representative) | | | | |
| | CERTIFICATE OF SH | | | | | | |
| I, the undersigned, holding a valid co | | | ssure Vessel Inspectors and employed by | | | | |
| have inspected the pressure vessel desc | | | , and | | | | |
| · · | | • | essel in accordance with ASME BOILER AND | | | | |
| , | | • | her employer makes any warranty, expressed | | | | |
| | , , , | • | either the Inspector nor his/her employer shall | | | | |
| be liable in any manner for any personal in | | | | | | | |
| | | | oo | | | | |
| Date Signed | (Authorized Inspector) | Commissions(National Commissions | onal Board Authorized Inspector Commission number) | | | | |
| | CERTIFICATE OF FIELD AS | SEMBLY COMPLIANCE | | | | | |
| We certify that the statements in this repor | t are correct and that the field asser | mbly construction of all parts | of this vessel conforms with the requirements | | | | |
| of ASME BOILER AND PRESSURE VESSE | L CODE, Section VIII, Division 1. U | Certificate of Authorization I | Number Expires | | | | |
| Data Name | | C: | | | | | |
| Date Name | (Assembler) | Signed | (Representative) | | | | |
| | CERTIFICATE OF FIELD AS | SSEMBLY INSPECTION | | | | | |
| I, the undersigned, holding a valid co | mmission issued by the Nationa | al Board of Boiler and Pre | ssure Vessel Inspectors and employed by | | | | |
| of | , have compared the statements i | n this Manufacturer's Data | Report with the described pressure vessel | | | | |
| and state that parts referred to as data it | .ems | , not included in th | e certificate of shop inspection, have been | | | | |
| inspected by me and to the best of my kr | nowledge and belief, the Manufact | turer has constructed and a | ssembled this pressure vessel in accordance | | | | |
| with the ASME BOILER AND PRESSURE | VESSEL CODE, Section VIII, Divis | sion 1. The described vesse | I was inspected and subjected to a pressure | | | | |
| | | | makes any warranty, expressed or implied, | | | | |
| • . | · · · · · · · · · · · · · · · · · · · | • | the Inspector nor his/her employer shall be | | | | |
| liable in any manner for any personal inju | ury or property damage or a loss of | of any kind arising from or o | connected with this inspection. | | | | |
| Date Signed | | Commissions | | | | | |
| | (Authorized Inspector) | (Nation | nal Board Authorized Inspector Commission number) | | | | |

(07/17)