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| **FORM U-2A MANUFACTURER’S PARTIAL DATA REPORT (ALTERNATIVE FORM)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1. Manufactured and certified by | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| (Name and address of Manufacturer) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Manufactured for | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | (Name and address of Purchaser) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Location of installation | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | (Name and address) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Type | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | [Description of vessel part (shell, two-piece head, tube bundle)] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | (Manufacturer’s serial number) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | (CRN) | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| (National Board number) | | | | | | | | | | | | | | | | | | (Drawing Number) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | (Drawing prepared by) | | | | | | | | | | | | | | | | | | | | | | | | (Year built) | | | | | | |
| 1. ASME Code, Section VIII, Div. 1 | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | [Edition and Addenda, if applicable (date)] | | | | | | | | | | | | | | | | | | | | | | | | | (Code Case number) | | | | | | | | | | | | | | | | | | | | | | | | [Special service per UG-120(d)] | | | | | | | | | | | | | | | | | | |
| 1. Shell: | | |  | | | (a) Number of course(s) | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | (b) Overall length | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |
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| Course(s) | | | | | | | | | | | | | | | | | | | | | | | | | Material | | | | | | | | | | | | | | | | | Thickness | | | | | | | | | | | | | | | Long Joint (Cat. A) | | | | | | | | | | | | | | | Circum. Joint (Cat. A, B & C) | | | | | | | | | | | | | | | | Heat Treatment | | | | | | |
| No. | | Diameter | | | | | | | | | | | | | Length | | | | | | | | | | Spec./Grade or Type | | | | | | | | | | | | | | | | | Nom. | | | | | | | Corr. | | | | | | | | Type | | | | Full, Spot, None | | | | | | Eff. | | | | | Type | | | | | | Full, Spot,  None | | | | | | Eff. | | | | Temp. | | | | Time | | |
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| **Body Flanges on Shells** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. | | Type | | | | | ID | | | | | OD | | | | | Flange Thk | | | | | | | | Min Hub Thk | | | | | | Material | | | | | | How Attached | | | | | | | | | | | | | Location | | | | | | | | | | Bolting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Num & Size | | | | | | | | | Bolting Material | | | | | | | | | | Washer (OD, ID, thk) | | | | | | | | | | | | Washer Material | | | |
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| 1. Heads: (a) | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | (b) | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | (Material spec. number, grade or type) (H.T. - time and temp.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | (Material spec. number, grade or type) (H.T. - time and temp.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Location (Top, Bottom, Ends) | | | | | | | | | | Thickness | | | | | | | | | | | | | | Radius | | | | | | | | | | Elliptical  Ratio | | | | | | | | | Conical  Apex Angle | | | | | | | | Hemis.  Radius | | | | | | | | Flat  Diameter | | | | | | | Side to Pressure | | | | | | | | | | | | | | | | Category A | | | | | | | | | | | |
| Min. | | | | | | Corr. | | | | | | | | Crown | | | | Knuckle | | | | | | Convex | | | | | | | | Concave | | | | | | | | Type | | | Full, Spot, None | | | | | | | Eff. | |
| (a) |  | | | | | | | | | |  | | | | | |  | | | | | | | |  | | | |  | | | | | |  | | | | | | | | |  | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | | |  | | | | | | | |  | | |  | | | | | | |  | |
| (b) |  | | | | | | | | | |  | | | | | |  | | | | | | | |  | | | |  | | | | | |  | | | | | | | | |  | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | | |  | | | | | | | |  | | |  | | | | | | |  | |
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| **Body Flanges on Heads** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Location | | | | | Type | | | | | | ID | | | | | | OD | | | | | | | Flange Thk | | | | | | Min Hub Thk | | | | | | | Material | | | | | | | | | | | | | | | | | | How Attached | | | | | | | **Bolting** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Num & Size | | | | | | | | Bolting Material | | | | | | | | | Washer  (OD, ID, thk) | | | | | | | | | Washer Material | | | | | |
| (a) |  | | | | |  | | | | | |  | | | | | |  | | | | | | |  | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | |  | | | | | | | | |  | | | | | | | | |  | | | | | |
| (b) |  | | | | |  | | | | | |  | | | | | |  | | | | | | |  | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | |  | | | | | | | | |  | | | | | | | | |  | | | | | |
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| 1. MAWP | | | | |  | | | | | | | |  |  | | | | | | |  | | at max. temp. | | | | | | |  | |  | | | | | | | | |  | |  | | | | | | | | | | | Min. design metal temp. | | | | | | | | | | | | | | | |  | | | | | | | | | | | at | | | |  | | | | | | | | | . |
|  | | | | | (Internal) | | | | | | | |  | (External) | | | | | | |  | |  | | | | | | |  | | (Internal) | | | | | | | | |  | | (External) | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | |  | | | |  | | | | | | | | |  |
| 1. Impact test | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | at test temperature of | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | . |
|  | | | | | | | | [Indicate yes or no and the component(s) impact tested] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  |
| 1. Hydro., pneu., or comb. test pressure | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | Proof test | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1. Nozzles, inspection, and safety valve openings: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Purpose  (Inlet, Outlet, Drain, etc.) | | | | | | | | | | | | | | | | No. | | | | | Diameter  or Size | | | | | | | Type | | | | | Material | | | | | | | | | | | | | | | Nozzle Thickness | | | | | | | | | | | | | | | | Reinforcement  Material | | | | | | | | | | Attachement Details | | | | | | | | | | | | | Location  (Inspe. Open) | | | | | | | |
| Nozzle | | | | | | | Flange | | | | | | | | Nom. | | | | | | | | | | Corr. | | | | | | Nozzle | | | | | | | | Flange | | | | |
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| 1. Identification of part(s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Name of Part | | | | | | | | | | | | | | | | Quantity | | | | | | Line No. | | | | | | M fr’s. Identification No. | | | | | | | | | | | | | | | M fr’s. Drawing No. | | | | | | | | | | | | | | | | | | | | | CRN | | | | | | | | | | | | | National Board No. | | | | | | | | | | | | | Year Built | | | | |
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| 1. Supports: Skirt | | | | | | | | | |  | | | | | | | | | | | Lugs | | | | |  | | | | | | Legs | |  | | | | | | | | | | | | Others | | | | | | |  | | | | | | | | | | | | | Attached | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | (Yes or No) | | | | | | | | | | |  | | | | | (Number) | | | | | |  | | (Number) | | | | | | | | | | | |  | | | | | | | (Describe) | | | | | | | | | | | | |  | | | | | | | | (Where and how) | | | | | | | | | | | | | | | | | | | | |
| 1. Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Form U-2A (Back)** | | | | | | | | | | | | | | | | | | | |
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| **CERTIFICATE OF SHOP/FIELD COMPLIANCE** | | | | | | | | | | | | | | | | | | | |
| We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure | | | | | | | | | | | | | | | | | | | |
| vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. | | | | | | | | | | | | | | | | | | | |
| U Certificate of Authorization No. | | | |  | | | | Expires | | | |  | | | | |  | | |
|  | | | | | |  | |  | | | |  | | | | |  | |  |
| Date | |  | | | Name | |  | | | | | | | | Signed |  | | |  |
|  | |  | | |  | | (Manufacturer) | | | | | | | |  | (Representative) | | |  |
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| **CERTIFICATE OF SHOP/FIELD INSPECTION** | | | | | | | | | | | | | | | | | | | |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors an employed by | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | of | |  | | | | | | |
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| have inspected the pressure vessel described in this Manufacturer's Data Report on | | | | | | | | | |  | | | | | | | | , | |
| and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with | | | | | | | | | | | | | | | | | | | |
| ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer | | | | | | | | | | | | | | | | | | | |
| makes any warranty, expressed or implied, concerning the pressure vessel part described in this Manufacturer's Data Report. Furthermore, neither | | | | | | | | | | | | | | | | | | | |
| the Inspector nor his/her 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 | | | | |  | | | | | |
|  |  | |  | | (Authorizied Inspector) | | | |  | | | | | [National Board (incl. endorsements)] | | | | | |
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