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| **FORM H-4 MANUFACTURER'S PARTIAL DATA REPORT****As Required by the Provisions of the ASME Code Rules****(Attach to the Applicable Data Report, Section IV)** |
|  |
| 1. | Manufactured and certified by |  | H-4 ID# |  |
|  |  | (name and address of manufacturer) |  |  |
| 2. | Manufactured for |  |
|  |  | (name and address of purchaser) |
| 3. | Location of installation |  |
|  |  | (name and address) |
| 4. | Identification of part(s): |
| Name of Part | LineNo. | Manufacturer’sSerial No. | Manufacturer’sDrawing No. | CRN | National Bd. No. | YearBuilt |
|  |  |  |  |  |  |  |
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| 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 Code, Section IV, | xx |  | - |  | xx |
|  |  | (year) |  | [addenda(as applicable)(date)] |  | (Code Case no.) |
| 6. | (a) | Drums: |
| No. | InsideDiameter | Inside Length | Shell Plates | Tube Sheets | Tube Hole LigamentEfficiency, % |
| Material Spec. No. Grade | Thickness | Inside Radius | Thickness | Inside Radius | Longitu-dinal | Circum-ferential |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
|  |
| No. | LongitudinalJoints | Circum.Joints | Heads | Hydro-staticTest |
| No. &Type\* | Effi-ciency | No. &Type | Effi-ciency | Material Spec. No. Grade | Thickness | Type\*\* | Radiusof Dish |
| 1 |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |
| \*Indicate if (1) seamless, (2) fusion welded. | \*\* Indicate if (1) flat, (2) dished, (3) ellipsoidal, (4) hemispherical. |
| 6. | (b) | Boiler tubes: | 6. | (c) | Headers no |  |
|  |  | Material |  | How |  |  |  |  | (box or sinuous or round, material spec. no., thickness) |
| Diameter | Thickness | Spec. No. Grade | No. | Attached |  |  |  | Heads or ends |  | Hydro. test |  |
|  |  |  |  |  |  |  |  |  | (shape, material spec. no.,thickness) |  |  |
|  |  |  |  |  |  | 6. | (d) | Staybolts |  |
|  |  |  |  |  |  |  |  |  | (material spec. no. diameter, size telltale; net area) |
|  |  |  |  |  |  |  |  | Pitch |  |  Net area |  |  Design pressure |  |
|  |  |  |  |  |  |  |  |  |  |  | (supportedby one bolt) |  |  |
| 6. | (e) | Mud drum |  |  Heads or ends |  |  Hydro. test |  |
|  |  |  | (for sect. header boilers, state size,shape, material spec. no., thickness) |  | (shape, material spec. no.,thickness) |  |  |
| 7. | Waterwall headers: |
|  |  |  |  | Heads or Ends |  | Waterwall Tubes |
| No. | Size and Shape | MaterialSpec. No. Gr. | Thickness | Shape | Thickness | MaterialSpec. No. Gr. | HydroTest | Diameter | Thickness | MaterialSpec. No. Gr. |
| 1 |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |
| 8. | (a) | Other parts (1) |  | (2) |  | (3) |  |  | (b) | Tubes for other parts |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |

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| **FORM H-4 (Back)** |
| 9. | Nozzles, inspection and safety valve openings: |
| Purpose(inlet, outlet, drain, etc. | No. | Diameteror Size | Type | HowAttached | Material | Nom.Thickness | ReinforcementMaterial | Location |
| ~~Handhole~~ |  |  |  |  | ~~NA~~ |  | ~~NA~~ |  |
|  |  |  |  |  |  |  |  |  |
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|  |
| 10. |  | MAWP | MaximumWater Temp. | Shop Hydro Test | HeatingSurface |  | Heating surface orkW to be stampedon drum heads | 11. Field Hydro. Test |
| a |  Boiler |  |  |  |  |  |  |  |
| b |  Waterwall |  |  |  |  |  | This heating surfacenot to be used fordetermining minimumsafety valve capacity. |  |
| c |  Other parts |  |  |  |  |  |  |  |
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| 12. | Remarks |  |
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| **CERTIFICATE OF SHOP COMPLIANCE** |
|  | We certify that the statements made in this partial data report are correct and that all details of design, material, construction, and workmanship |  |
|  | of these parts conform to Section IV of the ASME BOILER AND PRESSURE VESSEL CODE. |  |
|  | "H" Certificate of Authorization no. |  | expires |  |  , |  |  . |  |
|  | Date |  | Signed |  | Name |  |  |
|  |  |  |  | (by representative) |  | (manufacturer that constructed and certified boiler) |  |
| **CERTIFICATE OF SHOP INSPECTION** |
|  | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by |  |
|  | TÜV NORD Systems GmbH & Co KG, Essen, Germany |  |
|  |  |  have inspected the part of a boiler described in this Manufacturer’s Partial |  |
|  | Data Report on |  |  , |  |  , | and state that to the best of my knowledge and belief, the manufacturer has |  |
|  | constructed this part in accordance with Section IV of the ASME BOILER AND PRESSURE VESSEL CODE. By signing this certificate neither the |  |
|  | Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial 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 |  |  Commission |  |  |
|  |  |  |  | (Authorized Inspector) |  | (National Board commission number and endorsement) |  |