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| **FORM P-4 MANUFACTURER´S PARTIAL DATA REPORT** |
|  **As Required by the Provisions of the ASME Code Rules, Section I** | Page |       | of |       |
|  |  |  |  |  |
|  |
| 1. Manufactured by
 |       | , P-4 ID No. |       |
|  | (Name and address of manufacturer) |  |  |
| 1. Manufactured for
 |       |
|  | (Name and address of purchaser) |
| 1. Identification of Part(s)
 |
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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name of Part | Quantity | LineNo. | Mfr`s. IdentifyingNumbers | Manufacturer`sDrawing No. | CRN | National BoardNo. | YearBuilt |
|       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |
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| 1. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design (as indicated on line 14, Remarks) conforms to ASME Rules, Section I of ASME BOILER AND PRESSURE VESSEL CODE.
 |
|  |       | , Addenda to |       | (if applicable), and Code Cases |       |
|  | (Year) |  | (Date) |  | (Numbers) |
| 6(a). Drums |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Inside Diameter | Inside Length | Shell Plates | Tubesheets | Tube Hole LigamentEfficiency, % |
| Material Spec. No., Grade | Thickness | Inside Radius | Thickness | Inside Radius | Longitudinal | Circum-ferential |
| 1 |       |       |       |       |       |       |       |       |       |
| 2 |       |       |       |       |       |       |       |       |       |
| 3 |       |       |       |       |       |       |       |       |       |
| 4 |       |       |       |       |       |       |       |       |       |

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| --- | --- | --- | --- | --- |
| No. | LongitudinalJoints | Circum.Joints | Heads | HydrostaticTest |
| No. &Type\* | Efficiency | No. &Type | Effi-ciency | MaterialSpec. No., Grade | Thickness | Type\*\* | Radiusof Dish | Manholes No. Size |
| 1 |       |       |       |       |       |       |       |       |       |       |       |
| 2 |       |       |       |       |       |       |       |       |       |       |       |
| 3 |       |       |       |       |       |       |       |       |       |       |       |
| 4 |       |       |       |       |       |       |       |       |       |       |       |

 |
| \*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. |       | or |       |
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| --- | --- | --- |
| Diameter | Thickness | Material Spec. No., Grade |
|       |       |       |
|       |       |       |
|       |       |       |
|       |       |       |
|       |       |       |

  |  |  |  |  (Box or sinuous or round; Material spec. no.; Thickness) |
|  |  | Heads or Ends. |       | Hydro. Test |       |
|  |  |  | (Shape; Material spec. no.; Thickness) |  |  |
|  |  |  |
|  | 6(d). | Staybolts |       |
|  |  |  | (Material spec. no.; Diameter; Size telltale; Net area) |
|  |  | Pitch |       | Net Area |       |  | MAWP |       |
|  |  |  | (Horizontal and vertical) |  | (Supported by one bolt) |  |  |
| 6(e). Mud Drum |       | or |       | Heads or Ends |       | Hydro Test, psi |       |
|  | (For sect. header boilers, state: Size; Shape; Mat’l. spec. no.; Thickness) |  | (Shape; Material spec. no.; Thickness) |  |  |
|  |
| 7(a). Waterwall Headers |  7(b). Waterwall Tubes |
|

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Size and Shape | MaterialSpec. No. | Thickness | Heads or Ends | Hydro.Test | Diameter | Thickness | MaterialSpec. No. |
| Shape | Thickness | MaterialSpec. No. |
|       |       |       |       |       |       |       |       |       |       |       |
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| **FORM P-4** |
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| Form P-4 ID No. |       |  |
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| 8(a). Economizer Headers | Heads or Ends |  | 8(b). Economizer Tubes |  |
| No. | Size and Shape | MaterialSpec. No. | Thickness | Shape | Thickness | MaterialSpec. No. | Hydro.Test | Diameter | Thickness | MaterialSpec.No. |
|       |       |       |       |       |       |       |       |       |       |       |
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|  |
| 9(a). Superheater Headers |  |  |  |  |  | 9(b). Superheater Tubes |  |
|       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |
|  |
| 10(a). Other Parts(1) |  | (2) |  | (3) |  |  | 10(b). Tubes for Other Parts |
|  |
|       |       |       |       |       |       |       |       |       |       |       |
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|  |
| 11. Openings (1) Steam |       |  | (2) Pressure Relief Valve |       |
|  | (No., size, and type of nozzles or outlets) |  | (No., size, and type of nozzles or outlets) |
|  (3) Blowoff |       | (4) Feed |       |
|  | (No., size, and type of nozzles or outlets) |  | (No., size, type, and location of connections) |
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| 12. |  | Maximum AllowableWorking Pressure | Code Para. and/orFormula on WhichMAWP Is Based | Hydro. Test | Heating Surface |
| a | Boiler |       |       |       |       |
| b | Waterwall |       |       |       |       |
| c | Economizer |       |       |       |       |
| d | Superheater |       |       |       |       |
| e | Other Parts |       |       |       |       |

 |  |  |  | Heating surface to be stamped on drum heads.This heating surface not tobe used for determiningminimum pressure reliefvalve capacity. |
|  |
| 14. Remarks |       |
|  |       |
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| **CERTIFICATE OF COMPLIANCE** |
| We certify the statements made in this Manufacturer’s Partial Data Report to be correct and that all details of design (as indicated on line 14, Remarks), |
| material, construction, and workmanship of this boiler part conform to Section I of the ASM BOILER AND PRESSURE VESSEL CODE. |
| Our Certificate of Authorization No. |       | to use the (PP) or (S) |       | Designator expires |       | . |
|  |
| Date |       | Signed |       | Name |       |
|  |  |  | (Authorized Representative) |  | (Manufacturer) |
|  |
| **CERTIFICATE OF INSPECTION** |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by |
|       |
|       | have inspected the part of the 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 the applicable sections 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] |
|  |  |  |  |  |  |
| (07/15) |

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