

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by HAPPY DIVISION, THERMA TECHNOLOGY / TULSA, OKLAHOMA
2. Manufactured for PHILADELPHIA GAS WORKS / PHILADELPHIA, PA.
3. Location of Installation PHILADELPHIA GAS WORKS / PHILADELPHIA, PA.
4. Type HORIZONTAL 3416-5-2A --- C-17797 960 (Year Built) 1977
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 Rules, Section VIII, Division 1 1974 and Addenda to Winter 1974 and Code Case Nos. ---
Special Service per UG-120(d) ---
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: ---

6. Shell: Matl. No Shell Norm. Thk. --- in. Allow. --- in. Diam. --- in. Lgth. --- ft --- in.
7. Seams: Long. Welded R.T. No Efficiency --- % H.T. Temp. --- F Time --- hr
Girth Welded R.T. No No. of Courses ---
8. Heads: (a) Material SA-240-304L (b) Material SA-240-304L

Location (Top, Bottom, Ends) Min. Thk. Corr. Allow. Flat Diam. Side to Pressure (Convex or Concave)
(a) T & P Sht 1" 1/20" Max Span = 10.35 (11 1/4" x 11 8 1/2") Flat
(b) Wrapper Sht 1/2" 1/20" Max Span = 5.1 (4 3/4" x 11 8 1/2") Flat

If removable, bolts used (describe other fastenings) ---

9. Constructed for max. allowable working pressure 50 psi at max. temp. 650 F. Min. temp. (when less than -20 F) --- F. Hydrostatic test pressure 124 psi.

10. Safety Valve Outlets: Number --- Size --- Location ---

11. Nozzles and Inspection Openings:

Table with columns: Purpose (Inlet, Outlet, Drain), No., Diam. or Size, Type, Matl., Nom. Thk., Reinforcement Matl., How Attached, Location. Rows include Inlet, Outlet, Vent, Drain, Inlet, Outlet with various specifications.

12. Supports: Skirt --- Lugs 4 Legs --- Other --- Attached Welded to Tube Sht

13. Remarks: Box Header at Tube Ends 5 Row, 1 Pass, Tubes; Mat'l SA-249-304 Qty 2780.D. 1" X 16 BNG MW X 32'-0" Long.
F.W. REQ. NO. 1776-1231-G
P.G.W. EQUIP. NO. 2-154-07 ITEM NO. E-216
Unit Service: REGENERATION OVHD CONDENSER

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, Division 1

Date 9-14-77 Signed Happy Div. Therma-Tech. by Paul J. ... (Manufacturer) (Representative)
"U" Certificate of Authorization No. 10,491 expires May 11, 1980

CERTIFICATE OF SHOP INSPECTION

Vessel made by Happy Div. Therma-Technology at Tulsa, Oklahoma
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Arkansas and employed by Coml. Union Ins. Co have inspected the pressure vessel described in this Manufacturers' Data Report on 9-14 1977, 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.

Signed [Signature] Date 9-14-77 Commissions NB 7935 (Inspector) (Nat'l Board, State, Province and No.)

U.S. INSPECTION SERVICE

ROSS RAYNS JIVSON

POSTER WASHINGTON - MARY COLE