

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 Industrial Alloy Fabricators, Inc., Richmond, Va.
 2. Manufactured for Philadelphia Gas Works
 3. Location of Installation Philadelphia, Pennsylvania
 4. Type Vertical 30514-2 D 1840B 366 (Year Built) 1978
(Horiz. or vert. tank) (Mfr's Serial No.) (CRN) (Drawing No.) (Nat'l Bld No.)

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 1977 and Addenda to Jan 78 and Code Case Nos. _____
(Year) (Date)

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. SA516 Gr70 Thk. .438 in. Allow. .063 in. Diam. 60 in. Lgth. 17 ft 6 in.
(Spec. No., Grade) (Nom. Corr.)

7. Seams: Long. Welded Dbl R.T. Spot Efficiency 85 % H.T. Temp. _____ F Time _____ hr
(Welded, Dbl, Sngl, Lap, Butt) (Spot or Full) (R.T. (Spot, Partial, or Full))
 Girth Welded Double R.T. spot No. of Courses 2
(Welded, Dbl, Sngl, Lap, Butt) (Spot, Partial, or Full)

8. Heads: (a) Material SA516 Gr70 (b) Material _____
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisp. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) <u>Top & Bot.</u>	<u>.438</u>	<u>.063</u>	<u>-</u>	<u>-</u>	<u>2:1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>
(b) _____									

If removable, bolts used (describe other fastenings) _____

9. Constructed for max. allowable working pressure 148 psi at max. temp. 510 F. Min. temp. (when less than -20 F) _____ F. Hydrostatic, pneumatic, or combination test pressure 330 psi.
(Material, Spec. No., Gr., Size, No.)

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

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Manways</u>	<u>2</u>	<u>18"</u>	<u>Welded</u>	<u>SA516Gr70</u>	<u>.500</u>	<u>none</u>	<u>Welded</u>	<u>Shell</u>
<u>In/Outlet</u>	<u>4</u>	<u>2"</u>	<u>Forged</u>	<u>SA105</u>	<u>.625</u>	<u>"</u>	<u>"</u>	<u>Hds & Sh</u>
<u>Inlet</u>	<u>1</u>	<u>2"</u>	<u>Seamless</u>	<u>SA106GrB</u>	<u>.343</u>	<u>"</u>	<u>"</u>	<u>Shell</u>
<u>Inst.</u>	<u>1</u>	<u>1 1/2"</u>	<u>Forged</u>	<u>SA105</u>	<u>.563</u>	<u>"</u>	<u>"</u>	<u>Shell</u>
<u>Inst.</u>	<u>2</u>	<u>1"</u>	<u>"</u>	<u>SA181Gr1</u>	<u>.474</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>Inst.</u>	<u>5</u>	<u>3/4"</u>	<u>"</u>	<u>"</u>	<u>.350</u>	<u>"</u>	<u>"</u>	<u>"</u>

12. Supports: Skirt no Lugs - Legs 4 Other _____ Attached Shell & Welded
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: Chemical Process vessel for non-lethal service with Steam Coil of 300 PSIG @ 490 F Rating (Test-750 PSIG) Entering & exiting through 18" blind flange. Coil Material 2" sch. 40 SA312T304 & SA403WP304 welded into 5 tubes.

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 Jan 27, 1978 Signed Indus. Alloy Fab. Inc. by W R Ketchum
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 8351 expires March 30, 1980

CERTIFICATE OF SHOP INSPECTION

Vessel made by Indus. Alloy Fab., Inc. at Richmond, Va.

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 Ohio & Pa. and employed by _____* have inspected the pressure vessel described in this Manufacturers' Data Report on Jan. 26 1978, 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 C. W. Bragg Date 1/27/78 Commissions NB 4750
(Inspector) (Nat'l Board, State, Province and No.)