

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 GENERAL WELDING WORKS, INC. HOUSTON, TEXAS
 2. Manufactured for FOSTER WHEELER CORP. Livingston, N.J.
 3. Location of Installation Philadelphia, Pa.
 4. Type Vert. 13312 -- 6742A 8373 (Year Built) 1977
 (Horiz. or vert. tank) (Mfg's Serial No.) (CRN) (Drawing No.) (Net'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 1974 and Addenda to 12-76 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. SA-387GrII.C1 Nom 2-3/4 Corr. .125 in. Diam. 120 in. Lgth. 10 ft 11 1/2 in.
 (Spec. No., Grade) (Thk) (in. Allow.) (in. Diam.) (in. Lgth.) (ft)

7. Seams: Long. DB R.T. full Efficiency 100 % H.T. Temp. 1250 F Time 2-3/4 hr
 (Welded, Dbl. Sngl. Lap, Butt) (Spot or Full) (Spot, Partial, or Full) (No. of Courses) 1
 Girth DB R.T. full

8. Heads: (a) Material SA-387-Gr. II C1.1 (b) Material SA-387-Gr. II C1.1
 (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) Top	<u>1-7/16"</u>				<u>2:1</u>				<u>concave</u>
(b) Bottom	<u>1-7/16"</u>				<u>2:1</u>				<u>concave</u>

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

9. Constructed for max. allowable working pressure 427 psi at max. temp. 965 F. Min. temp. (when less than -20 F) -- F. Hydrostatic, pneumatic, or combination test pressure 1004 psi.

10. Safety Valve Outlets: Number -- Size -- Location Par. UG-125 note 1

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Vapor in	<u>1</u>	<u>18"-600#</u>	<u>RTJWNF</u>	<u>SA-335-PII</u>	<u>.750"</u>	<u>weld</u>	<u>welded in manway</u>	
Vapor out	<u>1</u>	<u>20"-600#</u>	<u>RTJWNF</u>	<u>SA-182-F11</u>	<u>3.275"</u>	<u>weld</u>	<u>welded in bot. hd.</u>	
Manway	<u>1</u>	<u>28"-600#</u>	<u>RF(Spc1)</u>	<u>SA-182-F11</u>	<u>6.312"</u>	<u>weld</u>	<u>welded in top hd.</u>	
Thermo. Conn.	<u>3</u>	<u>3"-600#</u>	<u>RTJLWN</u>	<u>SA-182-F11</u>	<u>1.312"</u>	<u>weld</u>	<u>welded in top hd.</u>	

12. Supports: Skirt yes Legs -- Legs -- Other -- Attached welded to head
 (Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: "SECOND STAGE RICH GAS REACTOR" Item # R-205 (2-036-05) S/O 6742 A
PO. #PP-23-115-1776

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 12-7-77 Signed General Welding Works, Inc. by A. Malnewski
 (Manufacturer) (Representative)

"U" Certificate of Authorization No. 2106 expires Feb. 28, 1978

CERTIFICATE OF SHOP INSPECTION

Vessel made by GENERAL WELDING WORKS, IN C. at Houston, Texas

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 Texas and employed by H.S.B.I. & I. CO. have inspected the pressure vessel described in this Manufacturers' Data Report on Dec. 8, 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 Jim A. Bradberry Date 12-8-77 Commissions Natl. Bd. # 6955
 (Inspector) (Net'l Board, State, Province and No.)