

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

105732

07-7004-9

1. Manufactured and certified by Fabwell Corporation 8410 S. Regency Dr. Tulsa, Ok 74131
2. Manufactured for D-COK / SHAW STONE & WEBSTER (Name and address of manufacturer) CPO: 56603-P-11-14
1430 ENCLAVE PARKWAY HOUSTON, TX 77077
(Name and address of purchaser)
3. Location of installation GIANT YORKTOWN REFINERY GRAFTON, VA
(Name and address)
4. Type VERTICAL TANK 07-7004-6 NA D-4858 R3 1565 2007
(Horz. or vert. tank) (Mfr's serial no.) (CRN) (Drawing No.) (Nat'l Bd No.) (Year built)

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 2004
to 2005 ADDENDA
(Addenda (Date)) (Code case Nos.) (Year)
NA LOW TEMP. UCS-65
(Special Service per UG-120(d))

6. Shell: SA-387-11-2 .750" .125" 2'-4.50" 20'-0"
(Mat'l. (Spec. No., Grade)) (Nom. Thk. (in)) (Corr. Allow. (in)) (Diam I.D. (ft. & in.)) (Length (overall) (ft. & in.))
7. Seams: WELDED DBL FULL 1.0 1225 2HOURS WELDED DBL FULL 1.0 2HOURS
(Long. (Welded, Dbl., Sngl., Lap, Butt)) (R. T. (Spot or Full)) (Eff. (%)) (H. T. Temp (°F)) (Time (hr)) (Girth (Welded, Dbl., Sngl., Lap, Butt)) (R. T. (Spot, Partial, or Full)) (Eff. (%)) (No of courses)
8. Heads: (a) Mat'l. SA-182-F11-2 (BLIND FLG.) (b) Mat'l. SA-387-11-2
(Spec. No., Grade) (Spec. No., Grade)

| | Location (Top, Bottom, Ends) | Minimum Thickness | Corrosion Allowance | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure (Convex or Concave) |
|-----|------------------------------|-------------------|---------------------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) | TOP | 5" | .125" | | | 2:1 | | | 28.5" | FLAT |
| (b) | BOTTOM | .750" | .125" | | | | | | FLAT | CONCAVE |

If removable, bolts used (describe other fastenings) SA-193-B7; 1-7/8" DIA. x 17-1/2" LG.; (28).

9. MAWP 906 (15 EXTERNAL) psi at max temp. 650 (366 EXTERNAL) °F
Min. design metal temp. 0 °F at 906 psi, Hydro. ~~pressure~~ test pressure 1418 (NEW & COLD) psi.

| Purpose (let Outlet, Drain) | No. | Diam. or Size | Type | Mat'l. | Nom. Thk. | Reinforcement Mat'l. | How Attached | Location |
|-----------------------------|-----|---------------|----------|--------------|-----------|----------------------|--------------|----------|
| MOUNT FLG. | 1 | 10" | CL600lwn | SA-182-F11-2 | 1.75" | WELD | UW16.1(f) | |
| OUTLET | 1 | 6" | CL600WN | SA-335-P11 | .432" | SA-387-11-2 | UW16.1(c) | |
| OUTLETS | 2 | 2" | CL600WN | SA-335-P11 | .344" | WELD | UW16.1(c) | |
| VENT/IN/RELIEF | 3 | 2" | CL600lwn | SA-182-F11-2 | .655" | WELD | UW16.1(c) | |

11. Supports: Skirt NO Lugs 4 Legs NONE Other NONE Attached WELDED TO SHELL
(Yes or no) (No.) (No.) (Describe) (Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NA

(Name of part, item number, Mfr's name and identifying stamp)

(1) 30" O.D. REACTOR BLOWBACK GAS ACCUMULATOR (D-612); Production Impacts performed per UG-84; Material Impact tested per UG-84. Line 10 (cont'd) Safety Valves Located In Piping. SEE ATTACHED U4 FORM.
UG 22 LOADINGS HAVE BEEN REVIEWED AND APPLIED PER CUSTOMER DECLARATIONS.

CERTIFICATE OF SHOP 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."U" certificate of Authorization No. 8684 expires 5-19-2010
Date 6-4-07 Co. name FABWELL CORPORATION Signed [Signature]

(Manufacturer)

Signed

(Representative)

Vessel constructed by Fabwell Corporation at 8410 S. Regency Dr. Tulsa, Ok 74131

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 OKLAHOMA and employed by ONE BEACON AMERICA INSURANCE COMPANY OF BOSTON, MA have inspected the component described in this Manufacturer's Data Report on 6-4-2007 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section V111, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 6-4-07 Signed [Signature]
(Authorized Inspector)

Commissions 118,8432-H OK 266
(Nat'l Board (incl. endorsements), State, Prov. and No.)

105732

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by FABWELL CORPORATION 8410 SOUTH REGENCY DRIVE TULSA, OK 74131
(Name and address of Manufacturer)

2. Manufactured for D-COK / SHAW STONE & WEBSTER 1430 ENCLAVE PARKWAY HOUSTON, TX 77077
(Name and address of Purchaser)

3. Location of installation GIANT YORKTOWN REFINERY GRAFTON, VA
(Name and address)

4. Type: VERTICAL TANK
(Horiz., vert., or sphere) (Tank, separator, heat exh., etc.)
NA D-4858 R3 07-7004-6
(CRN) (Drawing No.) (Mfg's. serial No.)
1565 2007
(Nat'l. Bd. No.) (Year Built)

Data Report
Item Number

Remarks

LINE 10 (CONT'D)

| PURPOSE | NO. | DIA. or SIZE | TYPE | MAT'L | NOM. THK. | REINF. MAT'L. | HOW | LOCATION |
|-------------|-----|-----------------|----------|--------------|--------------|------------------|-----------|----------|
| INSTRUMENT | 1 | 1-1/2" | CL600LWN | SA-182-F11-2 | .625" | WELD | UW16.1(c) | |
| INSTRUMENT | 1 | 1-1/2" | CL600WN | SA-335-P11 | .400" | WELD | UW16.1(c) | |
| HANDHOLES | 2 | 7.625" | CL600WN | SA-335-P11 | .500" | SA-387-11-2 | UW16.1(c) | SHELL |
| END OF DATA | | | | | | | | |

Certificate of Authorization: Type "U" No. 8684 Expires MAY 19, 19 2010

Date 6-4-07 Name FABWELL CORPORATION

Date 6-4-07 Name (Manufacturer)

Date 6-4-07 Name (Authorized Inspector)

Signed Donald Hurd
(Representative)

Commission NB. 8432-H OK 264
(Nat'l Board incl. endorsement, State, Province, and No.)

2/91)

This form (E00118) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

REPRINT 2/92

105732

DESIGN PRESS. & TEMP. 845 PSIG / 650° F.
MAP. NRC 1091 PSIG / 70° F.
TEST PRESS. 1418 PSIG
ACTUAL TEST TEMP. 67° F.

FABWELL CORPORATION
CPO NO. 56603-P-11-14
07-7004-6 (D-612)
30" OD Reactor Blowback Gas Accum.



PV119G

| | | |
|------------------------------------|-----------|--------------------|
| 1565 | | |
| CERTIFIED BY | | |
| FABWELL CORPORATION | | |
| TULSA, OKLAHOMA | | |
| U | 906 PSIG | AT 650 |
| | M.A.W.P. | MAX. TEMP. |
| W | 0 | AT 906 PSIG |
| MIN. DESIGN METAL TEMP. | | |
| RT-1 | 07-7004-6 | 2007 |
| MFG. SER. NO. YEAR BUILT | | |
| HT | 0.7500" | 0.7500" |
| MIN. HD. THK. SHELL THK. CONE THK. | | |
| | 0.1250" | 0.1250" |
| HEAD CORR. SHELL CORR. CONE CORR. | | |
| 07-7004-9 | D-612 | 56603-P-11-14 |
| JOB NO. | ITEM NO. | PURCHASE ORDER NO. |
| 30" CD REACTOR BLOWBACK GAS | | |
| SERVICE | | |
| ACCUM. 15 PSI EXI / 366° F. | | |