

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(ALTERNATE FORM FOR SINGLE CHAMBER, COMPLETELY SHOP-FABRICATED VESSELS ONLY)
AS REQUIRED BY THE PROVISION OF THE ASME CODE RULES, SECTION VIII, DIVISION 1

1. Manufactured and certified by HOWE-BAKER ENGINEERS, INC. - HWY. 850 E. 1/2 MILE E. OF FM 2767 TYLER, TX. 75705
(Name and address of manufacturer)
2. Manufactured for NUCOR CORP
(Name and address of purchaser)
3. Location of installation LISAS BAY TRINIDAD
(Name and address)
4. Type VERTICAL 2827 N/A D54V001A-D 1390 1993
(HORIZ. 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
1992 EDITION to N/A Addenda (Date) N/A Code Case Nos. N/A Special Service per UG-120(d) N/A
6. Shell: SA-516-70 .5625" .0625" 4' - 0" 8' - 0"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: DOUBLE V SPOT 85% N/A N/A SINGLE V SPOT 1
Long. (Welded, DBL. R.T. (Spot or Eff. (%) H.T. Temp (F) Time (hr) Girth (Welded, DBL. R.T. (Spot, No. of
Sngl., Lap, Butt) Full) (Partial, Full) Courses
8. Heads: (a) Matl. SA-516-70 (b) Matl. SA-516-70
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bott, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispher- ical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	.500"	.0625"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b)	BOTTOM	.500"	.0625"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE

If removable, bolts used (describe other fastening) SA-193-B7 / SA-194-2H
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 204 psi at max. temp 800 F
Min. design metal temp. 0 F at 204 psi. Hydro test pressure 427

10. Nozzles, inspection, and safety valve openings: SEE UG-125 NOTE 39

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Material	Nom. Thk.	Reinforcement Material	How Attached	Location
SAMPLE	1	1.5"	RFLWN	SA-105	.625"	N/A	WELDED	SHELL
INLET, OUTLET*	2	6"	RFLWN	SA-106-B	.432"	SA-516-70*	WELDED	RED. FLG. & HD.
CATALYST DUMP	1	8"	RFLWN	SA-106-B	.406"	SA-516-70	WELDED	SHELL
CATALYST FILL/MANWAY	1	18"	RFLWN	SA-106-B	.562"	SA-516-70	WELDED	TOP HEAD

11. Supports: Skirt YES Lugs N/A Legs N/A Other N/A Attached BOTT. HEAD - WELDED
(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: _____
(Name of part, item number, Mfr's name and identifying stamp)

ITEM NO: V-101 DESULFURIZER

NOTE: MOMT IS BASED ON UG-20 (f) & UCS-66

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. 8613 expires 5/15 1996.

Date 9-1-93 Co. Name HOWE-BAKER ENGINEERS, INC. Signed Victor Alvarin
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by HOWE-BAKER ENGINEERS, INC. at TYLER
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. COMPANY
have inspected the component described in this Manufacturer's Data Report on 9-1-93, 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 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 a loss of any kind arising from or connected with this inspection.

Date 9-1-93 Signed Fry Commissions AB/2491A TX/346
(Authorized Inspector) (Nat'l Board (incl. endorsements, State, Prov. and No.))