FORM U-1A MANUFACTURER`S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Chart Inc. 407 Seventh Street NW, New Prague, Minnesota 56071 (Name and address of Manufacturer)
2. Manufactured for: STOCK (Name and address of Purchaser)
3. Location of installiation: STOCK (Name and address)
4. Type: VS-11000 (Horizontal or vertical tank); 26530 (Manufacturer's serial number); M5669. 513467890 (CRN); D14028741H/D14114391B (Drawing Number); 75056 (National Board Number); 2014 (Year Built)
5. ASME Code, Section VIII, Division 1; 2013 EDITION [Addenda, if applicable(date)]; NA (Code Case numbers); LOW TEMP. SVC. UW2B [Special Service per UG-120(d)]
6. Shell: SA240 T304 (Material spec. number, grade); .377" (nominal thickness); 0 (Corr. Allow.); 8' 1.3" (Inner diameter); 24' 11.7" [Length (overall)]

Body Flanges on Shells

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting: Num & Size	Bolting: Bolting Material	Bolting: Washer (OD, ID, thk)	Bolting: Washer Material
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

7. Seams: TYPE 1 [Long, (welded, dbl., sngl., lap, butt)]; FULL [R.T. (Spot or Full)]; 100 (Eff(%)); NA (H.T. Temp.); NA (Time, hr); TYPE 2 Girth (welded, dbl., sngl., lap, butt); FULL [R.T.(spot, or full)]; 90 (Eff., %); 5 (No. of Courses)
8. Heads: (a) Material: SA240 T304 (Spec. no., grade); (b) Material: SA240 T304 (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Apex Ratio	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or Concave)
(a)	TOP	.359"	0	NA	NA	2:1	NA	NA	NA	CONCAVE
(b)	BOTTOM	.359"	0	NA	NA	2:1	NA	NA	NA	CONCAVE

Body Flanges on Heads

	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting: Num & Size	Bolting: Bolting Material	Bolting: Washer (OD, ID, thk)	Bolting: Washer Material
(a)	-	-	-	-	-	-	-	-	-	-	-	-
(b)	-	-	-	-	-	-	-	-	-	-	-	-

9. MAWP: 250 (INTERNAL); - (EXTERNAL) PSI at max. temp. 120 (INTERNAL); - (EXTERNAL) °F
Min. design metal temp. -320 °F at 250 PSI Hydro., pneu, or comb. Test pressure 457 PSI
Proof test NA
10. Nozzles, inspection, and safety valve openings:

Purpose (inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material: Nozzle	Material: Flange	Nozzle Thickness: Nom.	Nozzle Thickness: Corr.	Reinforcment material	Attachment Details: Nozzle	Attachment Details: Flange	Location (Insp. Open.)
NOZZLE	2	5.563"OD	W.E.	SA312 T304	NA	.750"	0	NA	UW16.1e	NA	NA
NOZZLE	1	2.38"OD	CPLG	SA182 F304	NA	.429"	0	NA	UW16.1e	NA	NA

11. Supports: Skirt NO (Yes or No) Lugs NA (Number) Legs NA (Number) Other STRAPS (Describe) Attached HEAD AND SHELL WELDED (Where and how)

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

NONE
(Name of part. Item number. Manufacturer's Name and identifying stamp)

VACUUM JACKETED VESSEL. INNER VESSEL CODED ONLY. IMPACT TEST EXEMPT PER APPENDIX 44-6.1(g). RT-UW-11(A)(5). VENT PORT IS PLUGGED AND SEAL WELDED. TEST POSITION IS HORIZONTAL. FOR NONCORROSIVE SERVICE. "THIS VESSEL HAS BEEN CONSTRUCTED USING COLD-STRETCHING PROCESSES IN ACCORDANCE WITH MANDATORY APPENDIX 44"

FORM U-1A (Back)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certifiy 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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 8377 expires 1/15/2016

Date 5/21/2014 Co. Name CHART, INC. (Manufacturer) Signed (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Chart Inc at 407 7TH STREET NW, NEW PRAGUE, MINNESOTA 56071

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by ONECIS INSURANCE COMPANY

have inspected the component described in this Manufacturer's Data Report on 5/20/2014 , and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 5/22/2014 Signed (Authorized Inspector) Commissions NB 13148AN [National Board (incl. endorsements)]