

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 Westermeyer Industries, Inc., 1441 State Route 100, Bluffs, Illinois, 62621, USA  
 (Name and address of Manufacturer)

2. Manufactured for Mayekawa USA Tennessee Plant, 130 Smart Park Dr, Lebanon, Tennessee, 37090, USA  
 (Name and address of Purchaser)

3. Location of Installation Unknown  
 (Name and address)

4. Type Horizontal U50601 R0235.5/W2925.2136 7890YTN WCS-600-24A-I 50601 2017  
 (Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 2015/ N/A 1518-5 none  
 [Edition and Addenda, if applicable (date)] (Code Case numbers) (Special service per UG-120(d))

6. Shell: SA53 GR B .375 in 0 in 1' 11.25" (ID) 8' 6.36"  
 (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)]

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: E None 85% none NA Type 2 Spot 80% 1  
 [Long. (welded, dbl., sngl., lap, butt)] [R.T.(spot or full)] (Eff. %) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (No. of courses)

8. Heads: (a) Material SA-516 GR 70 (b) Material SA-516 GR 70  
 (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)	END	.353"	0	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	END	.353"	0	N/A	N/A	2:1	N/A	N/A	N/A	Concave

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9. MAWP 350 psi N/A at max. temp. 300 °F N/A  
 (Internal) (External) (Internal) (External)

Min. design metal temp. -20 °F at 300 psi Hydro, pneu., or comb. test pressure PNEU at 385 psi

Proof test none

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	1	4.50"	Weld	SA-106 B		.337"			UW 16.1 (i)		Shell
Outlet	1	3.50"	Weld	SA-106 B		.300"			UW 16.1 (i)		Shell
Misc. Conn	1	2.375"	Weld	SA-106 B		.218"			UW 16.1 (c)		Shell
Misc. Conn	1	1"	Thread	SA-105		.218"			UW 16.2 (k)		Head
Misc. Conn	1	.75"	Thread	SA-105		.163"			UW 16.2 (k)		Shell
Misc. Conn	1	.25"	Thread	SA-105		.142"			UW 16.2 (k)		Shell
Misc. Conn.	4	.5"	Thread	SA-105		.143"			UW 16.2 (k)		Shell
Misc. Conn.	1	1.5"	Thread	SA-105		.300"			UW 16.2 (k)		Shell
Insp. Opening	1	12" x 16"	Elliptical Manway	SA-106 C		.75"			UW 16.1 (i)		Head

Additional Nozzles - See Attached U-4...

11. Supports: Skirt No Lugs N/A Legs N/A Other Saddle (6), Angle, Channel Attached Shell, Welded  
 (Yes or no) (Number) (Number) (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:

N/A  
 (Name of part, item number, Manufacturer's name and identifying stamp)

Impact test exempt per UCS-66(b) || For non-corrosive service  
Heads Were Normalized Afer Forming @ 1,060°F for 5 Hours.  
Flange attached to flange neck using UW 21.1.

## CERTIFICATE OF SHOP/FIELD 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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 35488 expires December 1, 2017.

Date 01/17/2017

Co. name

Westermeyer Industries, Inc.  
(Manufacturer)

Signed

  
(Representative)

## CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Westermeyer Industries, Inc. at 1441 State Route 100, Bluffs, Illinois, 62621, USA

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by OneCIS Insurance Company, of Lynn, MA

have inspected the component described in this Manufacturer's Data Report on January 17, 2017,

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 01/17/2017

Signed

  
(Authorized Inspector)

Commissions

10353, KS505, NE10220, MO0310  
(National Board (incl. endorsements))

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

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

1. Manufactured and certified by Westermeyer Industries, Inc., 1441 State Route 100, Bluffs, Illinois, 62621, USA  
(Name and address of Manufacturer)

2. Manufactured for Mayekawa USA Tennessee Plant, 130 Smart Park Dr, Lebanon, Tennessee, 37090, USA  
(Name and address of Purchaser)

3. Location of installation Unknown  
(Name and address)

4. Type Horizontal N/A U50601  
(Horizontal, vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturer's serial number)

R0235.5/W2925.21367890YTN WCS-600-24A-I 50601 2017  
(CRN) (Drawing number) (National Board number) (Year built)


Data Report  
Item Number

Remarks

*Additional nozzles, inspection and safety valve openings:*

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Misc. Conn.	1	1.5"	Thread	SA-105		.300"			UW 16.2 (k)		Shell
Misc. Conn.	2	.5"	Thread	SA-105		.143"			UW 16.2 (k)		Head
Misc. Conn.	3	1"	Thread	SA-105		.218"			UW 16.2 (k)		Shell
Misc. Conn.	1	2"	Thread	SA-105		.313"			UW 16.2 (k)		Shell

Certificate of Authorization: Type "U" No. 35488 Expires December 1, 2017

Date 01/17/2017 Name Westermeyer Industries, Inc. Signed   
(Manufacturer) (Representative)

Date 01/17/2017 Signed Douglas E. Raugust Commissions 10353, KS505, NE10220, MO0310  
(Authorized Inspector) (National Board Authorized Inspector Commission number)