

# Form U-1A MANUFACTURER'S DATA REPORT FOR PRESSEURE VESSELS

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

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

- Manufactured and certified by: Jiangyin Boiler & Vessel Factory, No.38 Nanyuan Road, Jiangyin City, Jiangsu Province 214400, P.R.China.  
(Name and address of Manufacturer)
- Manufactured for: DuPont Danisco Cellulosic Ethanol LLC, Niles Ferry Industrial Park 200 Industrial Drive Vonore, TN 37885  
(Name and address of Purchaser)
- Location of installation: Tennessee USA  
(Name and address)
- Type Vertical 9054(A) N/A WL0904.00 REV.00 15 2009  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CNR) (Drawing number) (National Board number) (Year built)
- 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 2007ED  
Year
- to A08 N/A N/A  
(Addenda (date)) (Code Case numbers) (Special service per UG-120(d))
- Shell SA/GB6654 16MnR 6 1 900 2572  
(Material spec. number, grade) (Nominal thickness) (Corr.allow) (Inner diameter) (Length(overall))
- Seams dbl bult spot 0.85 N/A N/A dbl/sngl bult spot 0.85 1  
[Long. (welded, dbl., sngl., lap, bult)] [R.T.(spot or full)] (Eff., %) (H.T. temp) (Time, hr) [Girth (welded, dbl., sngl., lap, bult)] [R.T.(spot or full)] (Eff., %) (No. of courses)
- Heads: (a) Material SA/GB6654 16MnR (b) Material SA/GB6654 16MnR  
(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	5.4	1	900	90	N/A	N/A	N/A	N/A	Concave
(b)	Bottom	5.4	1	900	90	N/A	N/A	N/A	N/A	Concave

- If removable, bolts used (describe other fastening) N/A  
(Material Spec. number, grade, size, number)
9. MAWP 0.31MPa N/A at max. temp. 150°C N/A  
(Internal) (External) (Internal) (External)
- Min. design metal temp. 0°C at 0.35MPa Hydro., pneu., or comb. test press. Hydro.test 0.46MPa

## 10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	Number	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
Tank outlet	1	2"	CL150 SO RF	SA-106 GrB	5.54	N/A	Fig.UW-16.1(c)	N/A
Recirculation return	1	1"	CL150 SO RF	SA-106 GrB	4.55	N/A	Fig.UW-16.1(c)	N/A
Ammonia hotwell inlet	1	1"	CL150 SO RF	SA-106 GrB	4.55	N/A	Fig.UW-16.1(c)	N/A
To be continued, see attached U-4 Form								

11. Supports: Skirt N/A Lugs N/A Legs 4 Others N/A Attached bottom and 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 N/A
- Remarks: (1) After cold forming, the heat treatment of the heads temperature is at 595-620° ;  
(2) Lifting lugs and legs are designed & calculated satisfying U-2(g) ;

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

## 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 36,073

Expires September 29, 2009

Date August 8, 2009 Co.name Jiangyin Boiler & Vessel Factory Signed Zhong weicang  
(Manufacturer) (Representative)

## CERTIFICATE OF SHOP/ FIELD INSPECTION

Vessel constructed by Jiangyin Boiler & Vessel Factory at No.38 Nanyuan Road, Jiangyin City, Jiangsu Province 214400, P.R.China.

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 DELAWARE

and employed by LR Insurance Ins. in Delaware have inspected the component described in this Manufacturer's Date Report on August 8, 2009 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 August 8, 2009 Signed Don Weidong Commissions A 13752  
(Authorized Inspector) [National Board (incl. endorsements), State, Province, and number]

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