

<b>KBR</b>	
ACCEPTANCE FOR ENGINEERING USE	
THIS DOCUMENT IS	
ACCEPTED (Code 1)	<b>X</b>
ACCEPTED WITH COMMENTS (Code 2)	
NOT ACCEPTED (Code 3)	
NOT REVIEWED (Code 4)	
ACCEPTANCE DOES NOT RELIEVE SUPPLIER FROM FURNISHING MATERIAL IN CONFORMANCE WITH ORDER. REFER TO SDR-1 FOR FULL DEFINITION OF ACCEPTANCE CONDITIONS.	
DISCIPLINE VM	BY DWL
DATE 28-Nov-12	

**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

**CORRECTED**

1. Manufactured and certified by SUNG JIN GEOTEC CO., LTD. SGT-1, #20-1, SUNGAM-DONG, NAM-GU, ULSAN, 680-140, SOUTH KOREA  
(Name and address of manufacturer)

2. Manufactured for Southern Company Services, Inc.  
(Name and address of purchaser)

3. Location of Installation Kemper County, Mississippi.  
(Name and address)

4. Type VERTICAL 11SP11-DR2064 11SP11-DR1064/2064-001 REV.5 1128 2012  
(Horiz. or vert., tank) (Mfg's serial No.) (CRN) (Drawing No.) (Natl. 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 2010 ED.  
Year

to N/A Yes  
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell : SA240-304L 0.55" 0.06 4'-0" 12'-0"  
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

Type 1 Welded, Single, Butt

7. Seams : SPOT 0.85 — — — SPOT 0.85 2  
Long. (Welded, Dbl., Snpl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Time (hr) Girth (Welded, Dbl., Snpl., Lap, Butt) R.T. (Spot, Partial, or Full) Eff. (%) No. of Courses

8. Heads : (a) Matl. SA240-304L (Spec. No., Grade) (b) Matl. SA240-304L (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness (in.)	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to pressure (Convex or Concave)
(a)	TOP	0.47"	0.06	—	—	2:1	—	—	—	Convex/Concave
(b)	BOTTOM	0.47"	0.06	—	—	2:1	—	—	—	Convex/Concave

If removable, bolts used (describe other fastenings) N/A  
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 50 15 psig at max. temp. 250 115 °F  
(Internal) (External) (Internal) (External)

Min. design metal temp. 10 °F at 50 psig Hydro. — or comb. test pressure 65 psig

Proof test. —

10. Nozzle, inspection and safety valve openings.

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk. (in.)	Reinforcement Matl.	How Attached	Location
VENTILATION AM	1	4"	Cl. 150# WN.RF	SA312-TF304L	0.34"	SA240-304L	Fig. UW-16.1(d)	—
VAPOR OUT AO	1	14"	Cl. 150# WN.RF	SA240-304L	0.55"	SA240-304L	Fig. UW-16.1(d)	—
VENT AV	1	2"	Cl. 150# WN.RF	SA312-TP304L	0.34"	N/A	Fig. UW-16.1(d)	—
MANHOLE BB	1	ID2'-0"	Cl. 150# LWN.RF	SA182-304L	1.04"	N/A	Fig. UW-16.1(d)	SHELL
INLET BJ	1	18"	Cl. 150# WN.RF	SA240-304L	0.55"	SA240-304L	Fig. UW-16.1(d)	—

11. Supports : Skirt Yes Lugs No Legs No Other No Attached To shell by fillet 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  
(Name of part, item number, Mfg's. name and identifying stamp)

1. Safety valve will be installed in system by other. 2. Impact test not required as per ASME SEC VIII, Division 1

3. Equipment Tag No. : DR2064

4. Pressure retaining covers were BB & AM : SA182-F304L & Stud bolt / 2 Heavy nuts : SA193-B8, 1-1/4" 8UN x L190 / SA194-B 5/8" x 11UNC x L100 / SA194-B

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. <u>31664</u>	
expires <u>DEC 17, 2014</u>	
Date <u>19-Mar-12</u> Co. name <u>SUNG JIN GEOTEC CO., LTD. SGT-1</u> Signed <u>J. S. LEE</u>	(Manufacturer) (Representative)
CERTIFICATE OF SHOP/FIELD INSPECTION	
Vessel constructed by <u>SUNG JIN GEOTEC CO., LTD. SGT-1</u> at <u>#20-1, SUNGAM-DONG, NAM-GU, ULSAN, 680-140, SOUTH KOREA.</u>	
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 <u>OHIO</u> and employed by <u>LR INSURANCE INC. Delaware, USA</u>	
have inspected the component described in this Manufacturer's Data Report on <u>19-Mar-12</u> , 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 <u>19-Mar-12</u> signed <u>S. H. SEO</u> Commissions <u>NB#13354-A, OH#733</u>	(Authorized Inspector) (National Board (incl. endorsements), State, Province, and Number)

**Southern Company Generation Kemper County**  
**MM185473 A Unit 1**

**SUNGJIN GEOTECH PO: MPC17984-0001**  
**SGT11-SP11-DR2064-001 U-1A MDR Rev: 1**  
**IGCC - GASIFIER - MULTIPAGE - MDR FOR PRESSURE VESSELS - VERTICAL**

CORRECTED

1. Manufactured and certified by	SUNG JIN GEOTEC CO., LTD.SGT-1, #20-1, SUNGAM-DONG, NAM-GU, ULSAN, 680-140, SOUTH KOREA.		
	(Name and address of manufacturer)		
2. Manufactured for	Southern Company Services, Inc.		
	(Name and address of purchaser)		
3. Location of installation	Kemper County, Mississippi.		
	(Name and address)		
4. Type :	VERTICAL	Vessel	11SP11-DR2064
	(Horiz., vert., or sphere)	(tank, separator, heat exh., etc.)	(Mfg's serial No.)
	-	11SP11-DR1064/2064-001 REV.5	1128
	(CRN)	(Drawing No.)	(Nat'l. Bd. No.)
			2012
			(Year Built)

[illegible]

Certificate of Authorization : Type		U	No.	31664	Expires	DEC. 17, 2014
Date	19-Mar-12	Name	SUNG JIN GEOTEC CO., LTD. SGT-1 (Manufacturer)		Signed	J. S. LEE (Representation)
Date	19-Mar-12	Name	S. H. SEO (Authorized Inspector)		Commission	NB#13354 A, OH#733 Nat'l Board (incl. endorsements), State, Prov. and No.