

Southern Company Generation Kemper County MM78154 E Unit 1

SUNGJIN GEOTECH PO: MPC17984-0001 SGT11-SP11-DR1064-2064-001 Rev: 5 IGCC - GASIFIER - AGR REGENERATOR REFLUX DRUM - GENERAL ASSEMBLY

ACCEPTANCE THIS DOCUMENT IS: ACCEPTED WITH COMENTS ACCEPTED WITH COMMENTS (Code 2) NOT ACCEPTED (Code 3) NOT REVIEWED ACCEPTANCE DOES NOT RELIEVE SUPPLIER FROM FURNISHISM MATERIAL IN CONFORMANCE WITH ORDER. REFER TO SOR-I FOR IPUL DEPRINTION 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)

CORRECTED

	As Require	d by the	Provisio	ns of the	ASME Bo	iler and Pressur	e Vessel Code	Rules, Section \	/III, Division	1	-13.457-00	
1. Manufactured and	certified by	SU	NG JIN G	EOTEC C	O., LTD.	SGT-1. #20-1, 8 (N	SUNGAM-DON	G, NAM-GU, ULS I manufecturer)	SAN, 680-14	0, 50U	TH KOREA	
2. Manufactured for Sourhern Company Services, Inc. (Name and address of puchaser)												
3. Location of Installation Kemper County, Mississippi.												
4. Type VERTICAL 11SP11-DR20 (Horiz, or vert., tank) (Migr's serial No												
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.												
to -						N/A			Yes			
	Addenda (Date) 6. Shell: SA240~304L 0.55"				Code Case Nos.				Special Service per UG-120(d)			
6. Shell: SA Mell.(S	de)	0.55" Nom. Thk.(in.)			0.06 Corr. Allow.(in.)		Diam.I.D.(ft. & in.)		Length (overall) (It, & in.)			
	Type 1 Welded,							Welded, ple.,Butt SPOT 0.85 2			, .	
	e.,Butt		SPOT 0.85 R.T.(Spot or Full) Eff.(%)			H.T. Time(ted, Dhl., R.T.(Spo	ot, Pertial. Ell	Pertial, Eff.(%) No.of Courses		
Sngl., L	.ap, Butt)					mp.(*F)						
B. Heads : (a) Mati.			SA240-304L (Spec. No., Grade)				(b) Matl.	SA240~304L (Spec. No., Grade)				
Leastlen/Ton	Minimum	Corre		Crown	Kriuckie	Filiptical	Conical	Hemispherical	Flat	Side	ide to pressure	
Location(Top, Bottom, Ends)	Thickness (in.)		Corrosion Cro		Radius		Apex Angle	Radius	Diameter		oncave)	
(a) TOP	0.47"	0.	06		-	2:1	-	_		Conve	x/Concave	
(b) BOTTOM	0.47"	0.			-	2:1		_	_	Conve	x/Concave	
If removable, bolts	used (descri	be other f	astenings)					N/A				
	50			15	no!	g at max.temp.	(Mart., S	pea. No., Gr., Size, N	o., 11	5	°F	
9, MAWP	60 (Internal)			xternal)	hai	g at max.temp.	(Interna		(External)			
Min. design meta		10	°F a		50	psig Hydro	Pneu., or comb.			65	psig	
Proof test.	-											
10. Nozzle, inspectio	n and safety	valve opi	enings.									
Purpose (inlet, Outlet, I	(niaı	No.	Diam. or Size	Ty	rpa Pa	Matl.	Nom. Thk.(in.)	Reinforcemer Matl.	nt Ho Attac		Location	
VENTILATION AM		1	4"	Cl. 150# WN.RF		SA312-TP304	L 0.34"	SA240-304	L Fig, UW-	Flg, UW-16.1(d)		
VAPOR OUT AO		1	14"	CI. 150# WN.RF		SA240-304L	0.55"	SA240-304	SA240-304L Fig. UW-16.1(d)		-	
VENT AV		1	2"	Cl. 150# WN.RF		SA312-TP304	L 0.34"	N/A	Fig, UW-16.1(d)		_	
MANHOLE BB			ID2'0"	CI. 150# LWN.RF		SA182-304L	1.04"	N/A	N/A Fig. UW-16.		SHELL	
INLET BJ		1	18"	18" Cl. 150# V		SA240-304L	-304L 0.55" SA2		4L Fig, UW-16.1(d)		_	
11. Supports : Skirt 12. Remarks : Manu	(Yes of no	Lug) Irtial Data	(No No.) roperly ide	Legs _	(No.)	(Det	No Attache eribe) s have been furnish		ell by fil Where an	let welded d how)	
tollowing items o							N/A	name and identifying				
1. Safety valve w	ill he instell	ed in sys	stem by a	ther.				as per ASME SE		ion 1		
3. Equipment Tax	No. : DR2	2064										
4. Pressure retain	ing covers	were BB	& AM:	SA182-F	304L & St	ud bolt / 2 Heav	y nuts : SA193	-B8, 1-1/4" 8UN	x L190 /SA	194-8		
5/8" x 11L	NC x L100	/SA194	-8				00110111100					
			l- 44-1			OF SHOP/FIELD		erial, construction,	and workm	anshio (of this vessel	
conform to the A	e statemen SME BOILER	is made RAND PF	IN MIS TO RESSURE	VESSEL C	ODE, Secti	on VIII, Division 1	, "U" Certificate	of Authorization N	lumber.	31	564	
expires	DEC 17, 2							mr		LEE	1000	
Date 1	9-Mar-12	'	Co. name	S		SEOTEC CO., LT (Manufacturer)	D.SG1-1	Signed	J. O	lative)	Bur	
				CER		OF SHOP/FIELD	INSPECTION					
Vessel construc	ted by	SUNG JII	N GEOTE		TD.SGT-1			IG, NAM-GU, UL	SAN, 680-1	40, SO	UTH KOREA	
I, the undersigned	i, holding a	valid co	mmission	Issued b	y the Natio			e Vessel Inspector				
	OHO		and	employed	by			CE INC. Delaware				
have inspected to	he compone	ent descr	ibed in t	his Manuf	acturer's E	Data Report on		19-Mar-12	h ARME PO		nd 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 of 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.												
	9-Mar-12		signed _		S. H. S	SEO /	Commissions سے	N	IB#13354,A			
(Authorized Inspector INstituted Board (Incl. endorsements), State, Protince, and Number												
						V 1/7/						

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

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

 Manufactured and certified by 	, <u>su</u>	NG JIN G	EOTEC CO., LTD.	SGT-1, #20-1, SUN	GAM-DONG, I	NAM-GU, ULSAN	, 680-140, SOU	TH KOREA.	
2. Manufactured for Sour	hern Com	npany Ser	vices, Inc.		dress of puchaser)				
Location of installationK	emper Co	ounty. Mis	sissippi.	(Name and ad	dress of puchaser,				
o. Location of Mistandion	ompor o	surey, mic	, crecippin	(Nam-	e and address)				
4. Type: VER1 (Horiz., vert	ICAL or sphere)				11SP11-DR2064 (Mig's serial No.)				
-	., or options		11SP11-E	(Tank, separator, heat 0R1064/2064-001			1128 2012		
(CRN)	(Nat'l. i	Bd. No.)	(Year Bullt)						
Date Report Item Number				Remark	s				
10. Nozzie, inspection and safe	ty valve op	enings:					7		
Purpose (Inlet, Outlet, Drain)	No.	Diam, or Size	Туре	Matl.	Nom. Thk.(in.)	Reinforcement Matl.	How Attached	Location	
STARUP FILLING BH	1	1.5"	CI. 150# LWN.RF	SA182-304L	0.53"	N/A	Fig. UW-16.1(d)		
STEAMOUT BS	1	2"	CI. 150# LWN.RF	SA182-304L	0,54"	N/A	Fig, UW-16.1(d)	-	
REFLUX OUT CW	1	4"	Cl. 150# WN.RF	SA312-TP304L	0.34"	SA240-304L	Fig. UW-16.1(d)		
BRIDLE LB1A	1	2"	Cl. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)		
BRIDLE LB18	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)		
LEVEL DISPLACER LT2A	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)	-	
LEVEL DISPLACER LT2B	1	2"	Cl. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig. UW-16.1(d)	-	
LEVEL DISPLACER LT3A	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)	-	
LEVEL DISPLACER LT3B	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)	-	
LEVEL DISPLACER LT4A	1	2"	C1. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)	-	
LEVEL DISPLACER LT4B	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig. UW-16.1(d)	-	
LEVEL DISPLACER LT5A	1	2 ⁿ	Cl. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)	-	
LEVEL DISPLACER LT5B	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig, UW-16.1(d)	-	
LEVEL DISPLACER LT6A	1	2"	CI. 300# LWN.RF	\$A182-304L	0.65"	N/A	Fig, UW-16.1(d)		
LEVEL DISPLACER LT6B	1	2"	CI. 300# LWN.RF	SA182-304L	0.65"	N/A	Fig. UW-16.1(d)	-	
LEVEL DISPLACER LT7A	1	2"	CI, 300# LWN.RF	SA182-304L	0.65"	N/A	Fig. UW-16.1(d)	-	
LEVEL DISPLACER LT7B	1	2"	CI. 300# LWN.RF	SA182~304L	0.65"	N/A	Fig. UW-16.1(d)	-	
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1	.1	1	1	L	1				
Certificate of Authorization: 3	Гуре	Ų	No.	31664	Expires	DE	C. 17, 2014		
Date 19-Mar-12		Name SUNG JIN GEOTEC CO., LTD.SG			-1 Signed		J. S. LEE		
							epresentativo		
Date 19-Mar-12	Na	me	S, H. SEC (Authorized Inspec		Commission _	NB#13 [Nat'l Board (incl. end-	354,A, OH#733 orsements), State, Pr	ov. and No.]	