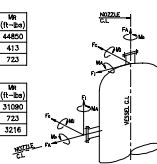


SHIELD SIZE							
SHIELD NO. (SIZE)	F <sub>A</sub> (Dn)	F <sub>1</sub> , F <sub>2</sub> (Dn)	F <sub>3</sub> (Dn)	M <sub>A</sub> (N-B)	M <sub>1</sub> , M <sub>2</sub> (N-B)	M <sub>3</sub> (N-B)	W <sub>B</sub> (N-B)
A1	474	581	648	3717	2247	4465	10
B1 (1 1/2")	326	345	452	228	207	413	10
B5 (2")	450	501	899	516	369	723	10
HEAD SIZE							
SHIELD NO. (SIZE)	F <sub>A</sub> (Dn)	F <sub>1</sub> , F <sub>2</sub> (Dn)	F <sub>3</sub> (Dn)	M <sub>A</sub> (N-B)	M <sub>1</sub> , M <sub>2</sub> (N-B)	M <sub>3</sub> (N-B)	W <sub>B</sub> (N-B)
A0	427	568	642	2786	2184	4364	10
A1	427	568	642	2786	2184	4364	10
AW (2")	450	501	899	516	369	723	10
CH (4")	967	1185	1933	2272	1608	3126	11




MATERIAL LIST					
18. Apr. '12	REVISED AS COMMENTS	B.M. ENG	D.H. MYUN	H.C. JUNG	
14. Nov. '11	REVISED AS COMMENTS	B.M. ENG	D.H. MYUN	H.C. JUNG	
12. Oct. '11	REVISED AS COMMENTS	B.M. ENG	D.H. MYUN	H.C. JUNG	
01. Sep. '11	REVISED AS COMMENTS	B.M. ENG	D.H. MYUN	H.C. JUNG	
15. Jun. '11	REVISED AS COMMENTS	B.M. ENG	J.K. KIM	H.C. JUNG	
11. Apr. '11	ISSUED FOR APPROVAL	B.M. ENG	J.K. KIM	H.C. JUNG	
REV.	DATE	DESCRIPTION	DRAWN	CHECKD.	APPROV.

PROJECT: **Kemper County IGCC Unit 1 Project**  
**KBR**  
 Engineering services by KBR Technical Services  
 TBPE Reg. No. F-2397

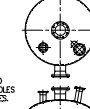
**SOUTHERN COMPANY**  
Southern Company. Inc.

 **SUNGJIN GEOTEC CO., LTD**  
ULSAN, KOREA

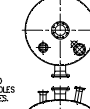
DATE:	DR1064/2064
DESCRIPTION:	AGR REGENERATOR REFLUX DRUM
BY:	GENERAL ASSEMBLY

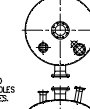
ANGLE 3	SCALE	REQ'D NO.	P.O. NO.	SHEET NO.
UNCE	SEE DWG.	2 SETS	MPC17984-0001	1 OF 1
	PLANT	SST	SCT11-SP11-001004/2004-001	SCT 7/0/10 11SP11
		Kemper County	DWG. NO.	
A1	DRAWING NO.	MM78154		REV.

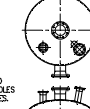
# GENERAL NOTES

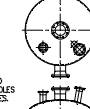


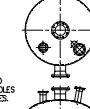
1. ALL DIMENSIONS ARE IN 1/8 INCH UNLESS OTHERWISE NOTED.
2. ALL WELD CONTINUOUS UNLESS OTHERWISE NOTED. — CONTINUOUS SEAL WELD
3. ALL BOLT HOLES SHALL STRADDLE THE PLATE CENTERLINE OR VERTICAL CENTER LINE OF VESSEL OR OTHER CONTAINER DESCRIBED.
4. GASKET CONTACT SURFACE OF FLANGE SHALL BE FINISH WITH 125-250 AAR
5. GASKET MATERIAL: SPIRAL WOUND Gaskets (COTED)
6. — HOOP : 3/16AL 5S (BSE C-W IN STEEL, MAX. BURNELL HARDNESS 160)
7. — FILLER : FILLABLE GASKETS
8. — INNER RING : 3/16AL 5S
9. — OUTER RING : 3/16AL 5S
10. EXTERNAL REINFORCING PAD SHALL HAVE A MINIMUM OF ONE 1/8" 1/4" NPT THREAD VENT HOLE PAD FOR NOZZLES GREATER THAN 1/2" SHALL HAVE A MINIMUM OF 2 VENT HOLES AND PADS FOR NOZZLES IN EXCESS OF 3/4" SHALL HAVE A MINIMUM OF 4 VENT HOLES. PADS INSTALLED IN SECTIONS SHALL BE SPACED TO THE MIN VENT HOLE SECTION. VENT HOLES SHALL BE TAPPED FOR FUTURE PLUGGING.

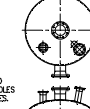


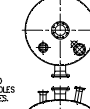


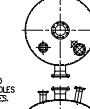


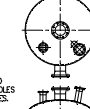


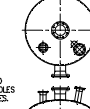


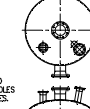


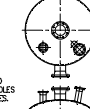


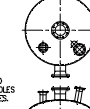


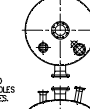


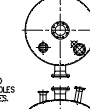


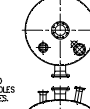


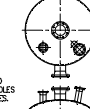


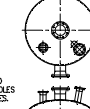


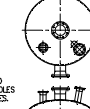


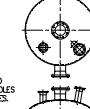


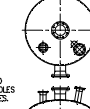


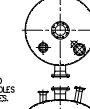












ASME STAMPED				YES (Y) & (NO)				LIQUID SPECIFIC GRAVITY				1.005	
STRESS RELIEF AFTER FORGING				NO				N.A.M.T.				10 (12) F (°C)	
STRESS RELIEF AFTER BENDING				NO				CAPACITY				167.5 F <sup>2</sup>	
WELDING METHOD				50				FABRICATION METHOD				13466 (1036) Lb/in <sup>2</sup>	
WELDING MET 1 OF 2				50				EJECTION METHOD				2142 (2690) Lb/in <sup>2</sup>	
WELDING MET 2 OF 2				50				EMPTY WEIGHT				2534 (1135) Lb/in <sup>2</sup>	
WIND TEST PRESS (KMPH/FPM)				60/65				OPERATING WEIGHT				2534 (1135) Lb/in <sup>2</sup>	
PNEU. TEST PRESS (PSI/MPA)				100				FLAT WATER WEIGHT				31946 (14446) Lb/in <sup>2</sup>	
MIN. BASIC WIND SPEED				100				FIRE PROOFING				NO	
WIND CODE				ASCE 7-16 (14-15)				INSULATION				NO	
SEISMIC ZONE				ASCE 7-16 (CLASS C)				SPECIAL SERVICE				SEE NOTE "15"	
CONTENT				15				P.W.A.L.T.				NO	
EXTERNAL				15				RADIOGRAPHY				SHELL: STOP HEAD: FULL	
INTERNAL				20				KINETIC EFFICIENCY				SHELL: 0.80 HEAD: 1.00	
PRESS. TEMP. P (°C)				PRESS. TEMP. P (°C)				NOZZLES				1800°F [1000°C]	
DESIGN OPERATING				DESIGN OPERATING				SHIELDS				1800°F [1000°C]	
CORROSION ALLOWANCE				CORROSION ALLOWANCE				WELD				1800°F [1000°C]	
CODE				CODE				SHELL				1800°F [1000°C]	

[illegible]

NOZZLE LIST

**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