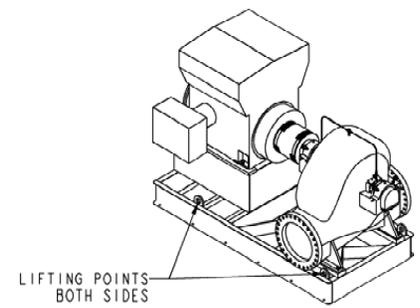
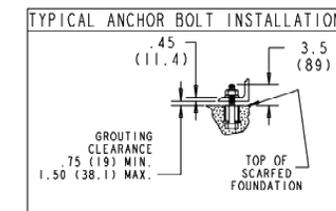
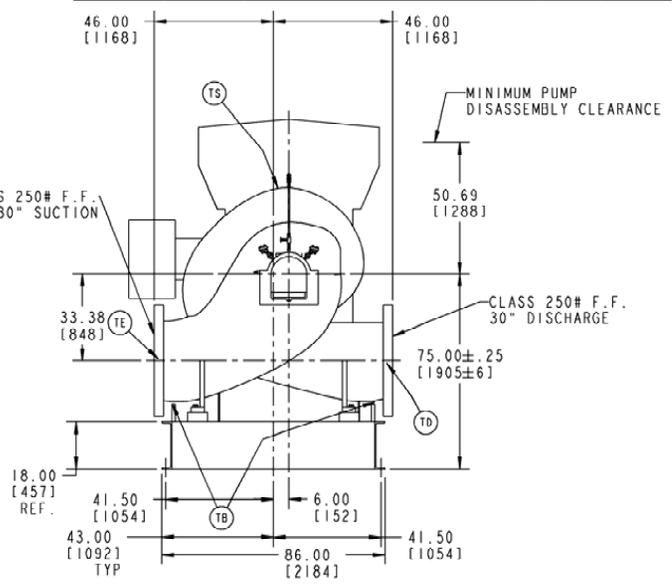


3	REVISED PER CUSTOMER COMMENTS APB 11/28/12
2	REVISED PUMP ITEM NUMBER PER CUSTOMER COMMENT JB 8/05/11
1	UPDATED BEDPLATE LIFTING LUGS ADDED CROSS BRACE FOUNDATION BOLT HOLES IN BEDPLATE WERE 1.06 Ø JB 7/15/2011
REV	DESCRIPTION



CONNECTIONS TABLE						
NO	SIZE	TYPE	QTY	PURPOSE	STATUS	FOR USE BY
TA	1/2	NPT	1	CASING VENT	PLUGGED	CUSTOMER
TB	1/2	NPT	2	CASING DRAIN	PLUGGED	CUSTOMER
TD	1/4	NPT	1	DISCHARGE PRESSURE GAUGE	PLUGGED	CUSTOMER
TE	1/4	NPT	1	SUCTION PRESSURE GAUGE	PLUGGED	CUSTOMER
TF	1/2	NPT	2	BEARING HOUSING DRAIN	PLUGGED	CUSTOMER
TR	1/4	NPT	2	SUCTION VENT	PLUGGED	CUSTOMER
TS	1	NPT	1	CASING PRIME	PLUGGED	CUSTOMER
TU	1/2	NPT	4	STUFFING BOX SEAL RING CONNECTION	PLUGGED	CUSTOMER
Φ1	1/2	NPT	2	MECHANICAL SEAL FLUSH CONNECTION	BYPASS	GOULDS
Φ2	1/2	NPT	6	MECHANICAL SEAL QUENCH/DRAIN	PLUGGED	CUSTOMER
Φ3	1/2	NPT	2	MECHANICAL SEAL PRESSURE INDICATOR	PLUGGED	CUSTOMER
VP	3/8"-24	UNF	4	VIBRATION SENSOR PROVISION	W/INST	CUSTOMER
RTD	1/2	NPT	3	TEMPERATURE DETECTION PROVISION	W/INST	CUSTOMER

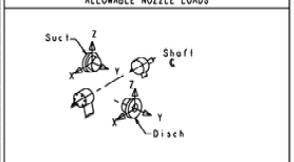
BYPASS PARTS LIST - 316SS 1/2" TUBING (RECIRCULATION FORM DISCHARGE TO SEAL CHAMBER)			
PART NAME	MATERIAL	DESCRIPTION	SIZE
TUBING	316SS	.035 WALL	1/2
PIPE	316SS	SCH 80	1/2
TUBE FITTINGS	316SS	PARKER HANNIFIN	1/2
PIPE FITTINGS	316SS	3000 LB.	1/2



- NOTES**
- FLANGES CONFORM TO ANSI STANDARDS. BOLT HOLES STRADDLE 4, 1B16.5 STEEL OR B16.1 IRON
 - ROTATION CW VIEWED FROM COUPLING END.
 - DIMENSIONAL TOLERANCE TO PIPED CONNECTIONS IS ±0.50 (13) EXCEPT FOR PUMP SUCTION AND DISCHARGE.
 - ROUTING OF PIPELINES IS APPROXIMATE AND MAY VARY AFTER ASSEMBLY
 - REFER TO MECHANICAL SEAL DRAWING FOR GLAND DETAIL.
 - BASEPLATE IS SUPPLIED WITH MOTOR ALIGNMENT SCREWS (NOT SHOWN) & PLACES.
 - ALL OTHER DIMENSION TOLERANCES ±.12 UNLESS OTHERWISE SPECIFIED.

MM77422

ITEM	WEIGHTS ARE APPROXIMATE		WEIGHTS ARE APPROXIMATE	
	LBS	KG	LBS	KG
PUMP	16848	7642	16200	7348
COUPLING	200	91	200	91
DRIVER	12261	5562	12261	5562
BASEPLATE	7543	3421	7543	3421
TOTAL	36852	16716	36204	16722



FORCE	SUCTION		DISCHARGE	
	LBS	(N)	LBS	(N)
F _{max}	25,500	113,430	25,500	113,430

MOMENTS	SUCTION		DISCHARGE	
	FT-LBS	(N-M)	FT-LBS	(N-M)
M _{max}	18,750	25,422	17,625	23,896

COUPLING SPECIFICATIONS
MFR: FALK SIZE: 1040
TYPE: G20
GUARD PROVIDED: YES NO
MATERIAL: STEEL

MECHANICAL SEAL SPECIFICATIONS
MFR: BURGMANN
TYPE: SINGLE CARTRIDGE
GLAND TYPE: FLUSH, QUENCH, DRAIN, & PRESSURE INDICATOR

DRIVER SPECIFICATIONS
MFR: TECO - WESTINGHOUSE
POWER: 1650 HP/1230 KW FRAME: 5614
PHASE: 3 RPM: 895
HERTZ: 60 VOLTS: 4000
ENCLOSURE WP2
MODEL: 3420 GROUP: LDS

SIZE: 30x30-31
LUBRICATION: FLOOD OIL
BEARING ARRANGEMENT: BALL/BALL
BASEPLATE: FABRICATED STEEL
CERTIFIED FOR CONSTRUCTION ONLY WHEN SIGNED.

SIGNATURE: J. NEMO DATE: 3/17/2011
CUSTOMER DATA
Serial No: P269C021-1-2-3
Customer: MISSISSIPPI POWER COMPANY
Project: Kemper County IGCC
PD No: MPC10024810
Pump Item No: 010-HE-PU-6032, 6033, 6034
Motor Item No: 010-HE-MD-6032, 6033, 6034
Service: GI Closed Loop Cooling Water Pump

PUMP OUTLINE DRAWING MODEL 3420

ITT GOULDS PUMPS

DRAWING SCALE: 0.033
DIMENSIONS IN INCHES(mm)

DRAWN: PML 3/17/2011 CHECKED: PML 3/22/2011 APPROVED: SJC 3/22/2011 COPYRIGHT: 2011

DRAWING: C1-269C021 REV: 3
SHEET 1 OF 1

Southern Company Generation Kemper County
MM77422 C Unit 1

BROWNLEE-MORROW ENGINEERING PO: MPC10024810
C1-C269C021 Rev: 3
IGCC - COMBINED CYCLE - GI CLOSED LOOP COOLING WATER PUMPS - GENE

Approved