

NOTES:

1. SEE DEVICE SUMMARY (MLI 0414) FOR CONTROL DEVICE SETTINGS.
2. SET NEEDLE VALVE TO FULL OPEN. NEEDLE VALVE PROVIDED TO CONTROL OPENING TIME OF VA19-1 AND VA19-2 IF REQUIRED LATER.
3. VARIABLE SUPPLY ORIFICE SET TO OPEN VA13-1 AND VA13-2 IN 35±5 SECONDS, VENT TO CLOSE IN 10 SECONDS MAXIMUM. VARIABLE VENT ORIFICES SET TO OPEN VA13-3 AND VA13-4 IN 35±5 SECONDS, SUPPLY TO CLOSE IN 10 SECONDS MAXIMUM.
4. WARNING: DO NOT BLOW DOWN Y-STRAINER DURING UNIT FIRED OPERATION. BLOW DOWN DURING START UP EXHAUST PURGE OR JUST AFTER FIRED SHUTDOWN COMMAND.
5. BLOW DOWN AS REQUIRED. REMOVE AND CLEAN SCREEN WHEN PRESSURE EXCEEDS 3 PSID (0.21 KG/CM2).
6. INSTRUMENT AIR MAY BE REQUIRED AT START UP AND SHUTDOWN BASED ON CONTROL SEQUENCING.
7. TYPICAL 10 PLACES.
8. THREE-WAY VALVES TO BE MOUNTED WITH THE ACTUATOR PINS AND DRAIN CONNECTIONS (P<sub>v</sub>) POINTED DOWN. DRAIN TUBING IS TO SLOPE AWAY FROM THE 3-WAY VALVES.
9. NORMALLY CLOSED VALVE, OPEN DURING OFFLINE COMPRESSOR WATER WASH (LOCATED ON FUEL GAS INTERCONNECT PIPING).

10. THE PURGE Y-STRAINER SHALL HAVE A 100 MESH BASKET (140 MICRON, 5.5 MIL) THIS LEVEL OF SCREENING IS REQUIRED TO PROTECT THE CHECK VALVES (WATER) AND THE NOZZLES.
11. ADJUST VA33-1 VENT NEEDLE VALVE SO THAT WATER PURGE VALVE OPENS IN 10 SECONDS IN ORDER TO MINIMIZE THE POTENTIAL FOR SECONDARY FLAMEOUT.
12. DO NOT COMBINE TELLTALE DRAIN LINES TOGETHER. OUTLET OF DRAIN MUST BE VISIBLE.
13. VALVES VA19-1, VA19-2, AND VA33-1 ARE NORMALLY OPEN TO PURGE. VA19-3 AND VA19-4 ARE NORMALLY OPEN TO PURGE.
14. REFERENCE RED FLAG PROCEDURE FOR VA23-2 ADJUSTMENT PROCEDURE.
15. PURGE SYSTEM MUST BE WATER FLUSHED PRIOR TO OPERATION.
16. VA23-2 TO BE LOCKED AFTER FIELD ADJUSTMENT.
17. VALVE STEM PACKING LEAKOFF (PVL) CONTINUED ON ML ITEM 0422.
18. PG1 AND PG13 (MLI 0991) ARE POTENTIAL CLASS 1 DIV 1 SOURCES OF NATURAL GAS. INSTALLER SHALL ROUTE THESE LINES SEPARATE FROM EACH OTHER AND ALL OTHER VENTS TO A NATURALLY VENTILATED AREA OUTSIDE OF ANY BUILDINGS OR ENCLOSURES, AND IN AN AREA FREE FROM SOURCES OF IGNITION. THE EXTENT OF THE HAZARDOUS AREA CREATED BY PG1 AND PG13 IS A 5 FT CLASS 1, DIV 1, GROUP D SPHERICAL RADIUS AND AREA BETWEEN 5 FT AND 10 FT IS CONSIDERED TO BE A CLASS 1, DIV 2, GROUP D SPHERICAL RADIUS.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	(1) REMOVED DESIGN MEMO REF DC1-02028793 AN-02029457 MICHAEL B. RALPH	02-11-14 MBR	JWT MPB


REVISE ON CAD ONLY  
UG PART: GR0791-0477  
( SPEC: 357B6305 )

PARAMETERS AT PC CONNECTIONS

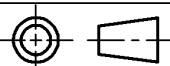
PC	TEMP	PRESSURE	FLOW (TYP)	FLOW (MAX)
PG35	150 °F (65.6 °C)	90 PSIG (NOM) (6.33 KG/CM2)	14 SCFM TRANSIENT	14 SCFM TRANSIENT
AA2A & AA2B	225 °F (107.2° C)	235 PSIG (NOM) (16.52 KG/CM2)	0 GPM	20 GPM @ FAULT CONDITION
AA15	225° F (107.2° C)	270 PSIG (NOM) (18.98 KG/CM2)	89 SCFM	89 SCFM
PG46	300 °F (149 °C)	270 PSIG (NOM) (18.98 KG/CM2)	0 GPM	121 SCFM TRANSIENT @ BLOWDOWN
PG33	225° F (107.2° C)	235 PSIG (NOM) (16.52 KG/CM2)	0 GPM	20 GPM @ FAULT CONDITION
PG13	250° °F (121.1° C)	90 PSIG (NOM) (6.33 KG/CM2)	23.8 SCFM TRANSIENT	23.8 SCFM TRANSIENT
PG1	250° °F (121.1° C)	90 PSIG (NOM) (6.33 KG/CM2)	23.8 SCFM TRANSIENT	23.8 SCFM TRANSIENT

1	SYM, PP	277A2415
IT.	NOMENCLATURE	IDENT
LIST OF COMPLEMENTARY DOCUMENTS		

A	A	A	A	A	REV	REV STATUS OF SHEETS
5	4	3	2	1	SH	

UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE		 GE Power Generation		GENERAL ELECTRIC COMPANY	
DIMENSIONS ARE IN INCHES. TOLERANCES ON: 2 PL DECIMALS ± - 3 PL DECIMALS ± - ANGLES ± - FRACTIONS ± - ✓		DRAWN F.J. SERRA		02-08-20		DIAG, SCHEM PP- FUEL PURGE FIRST MADE FOR ML-7A1PEA246-1T4 0477		GAS TURBINE	
		CHECKED M.B. RALPH		02-08-22				Greenville, SC	
		ENGRG M.P. BLACK		02-08-22					
		ISSUED F.J. SERRA		02-08-23					
		QUAL CONT M. WOLFE		02-08-22					
APPLIED PRACTICES 348A9200						SIZE		CAGE CODE	
						DWG NO		357B6305	
		SIM TO:		355B8292		SCALE		NONE	
								SHEET 1	

THIRD ANGLE PROJECTION

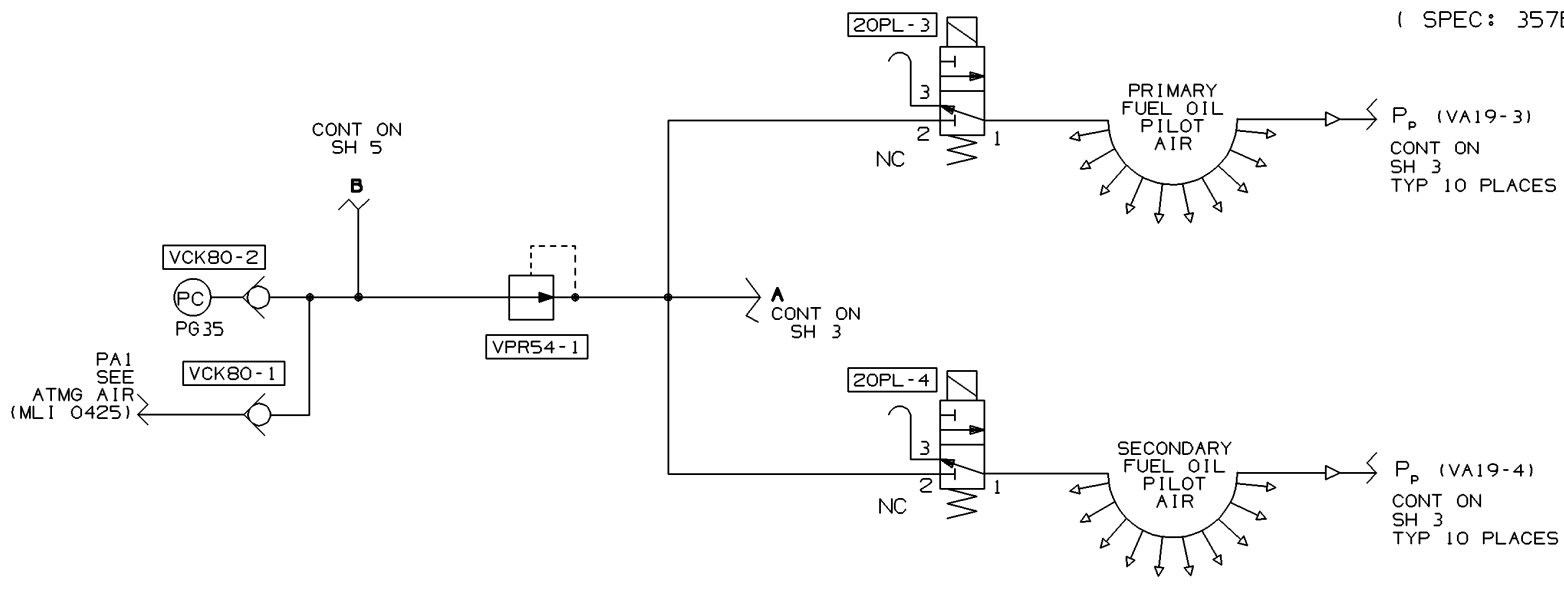


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SIZE **B** DWG NO 357B6 305 SH 2 REV A


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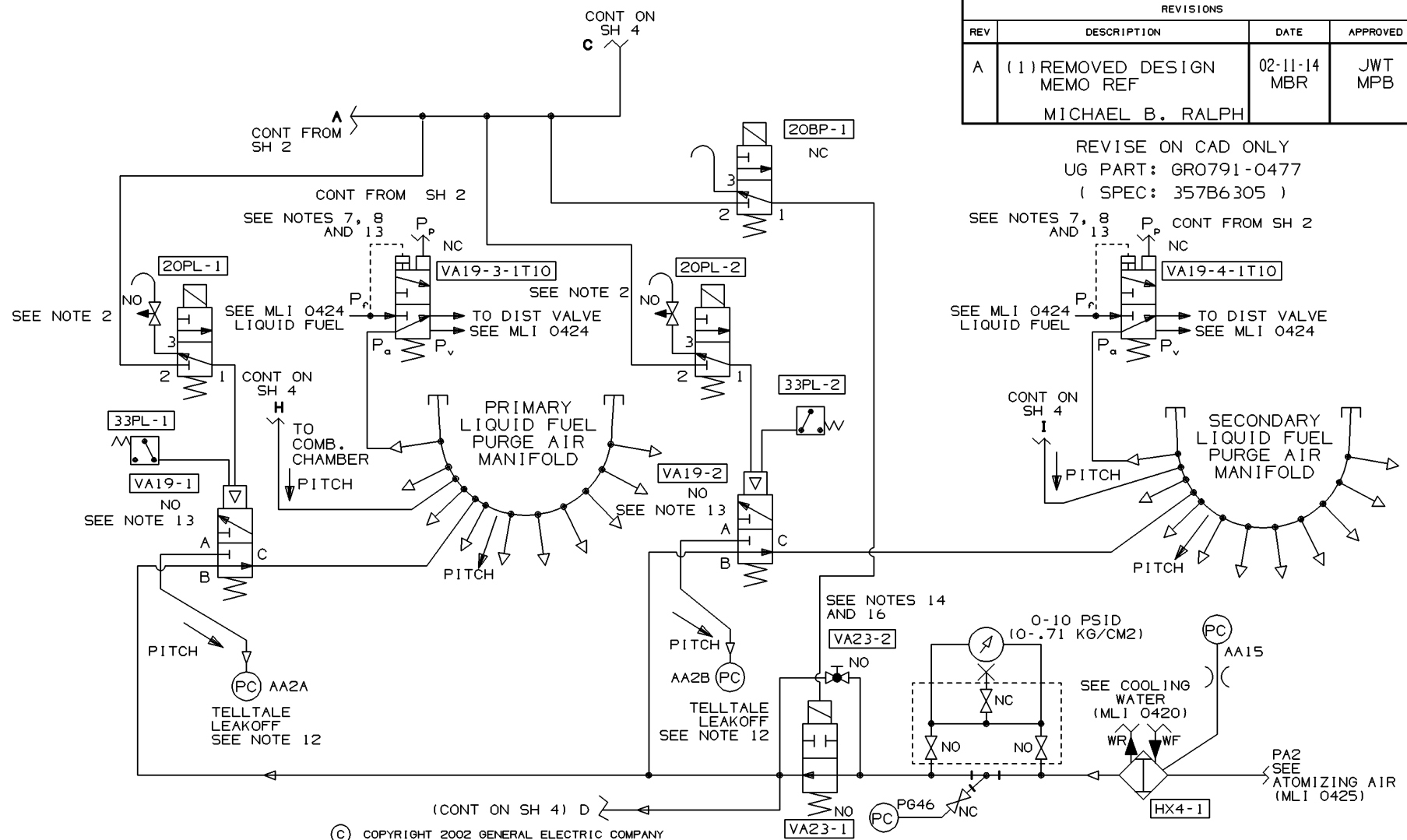
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			<b>B</b>	357B6 305		
DRAWN	FRED J. SERRA	02-08-20				
ISSUED	FRED J. SERRA	02-08-23	SCALE	NONE	SHEET	2

DISTR  
TO


DISTR  
TO

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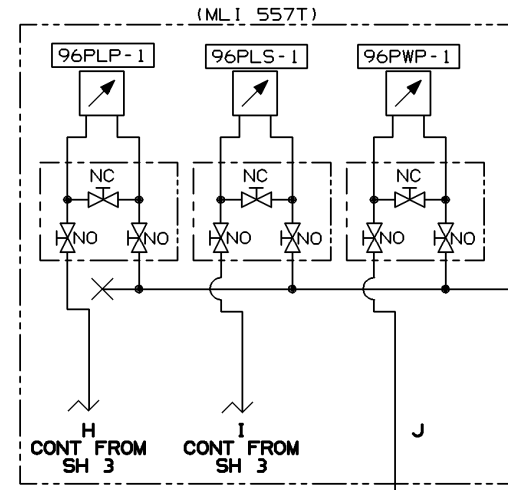
 GE Power Generation			GENERAL ELECTRIC COMPANY GAS TURBINE Greenville, SC		SIZE <b>B</b>	CAGE CODE	DWG NO 357B6 305	0477
DRAWN	FRED J. SERRA	02-08-20						
ISSUED	FRED J. SERRA	02-08-23	SCALE NONE				SHEET	3

DISTR  
TO

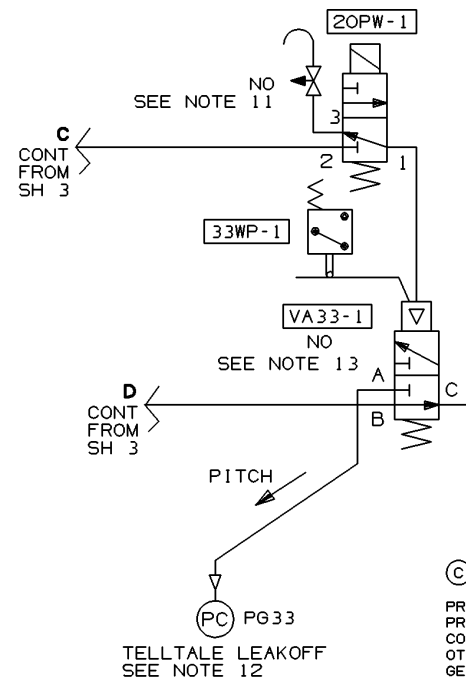
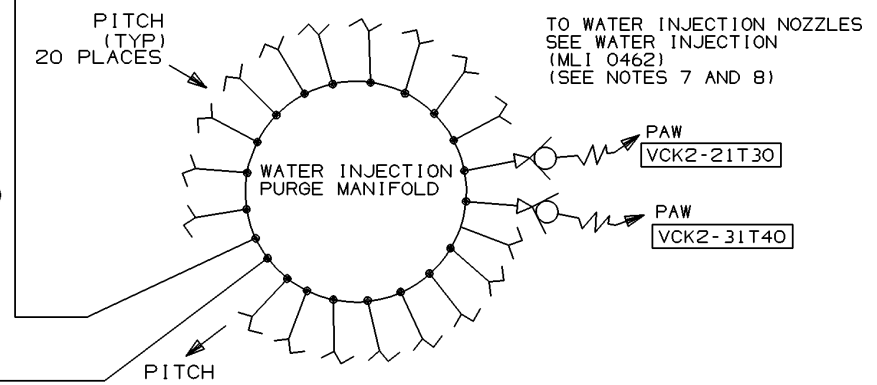
SIZE **B** DWG NO 357B6 305 SH 4 REV **A**

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FROM AD-5  
SEE COOLING  
AND SEALING AIR  
(MLI 0417)



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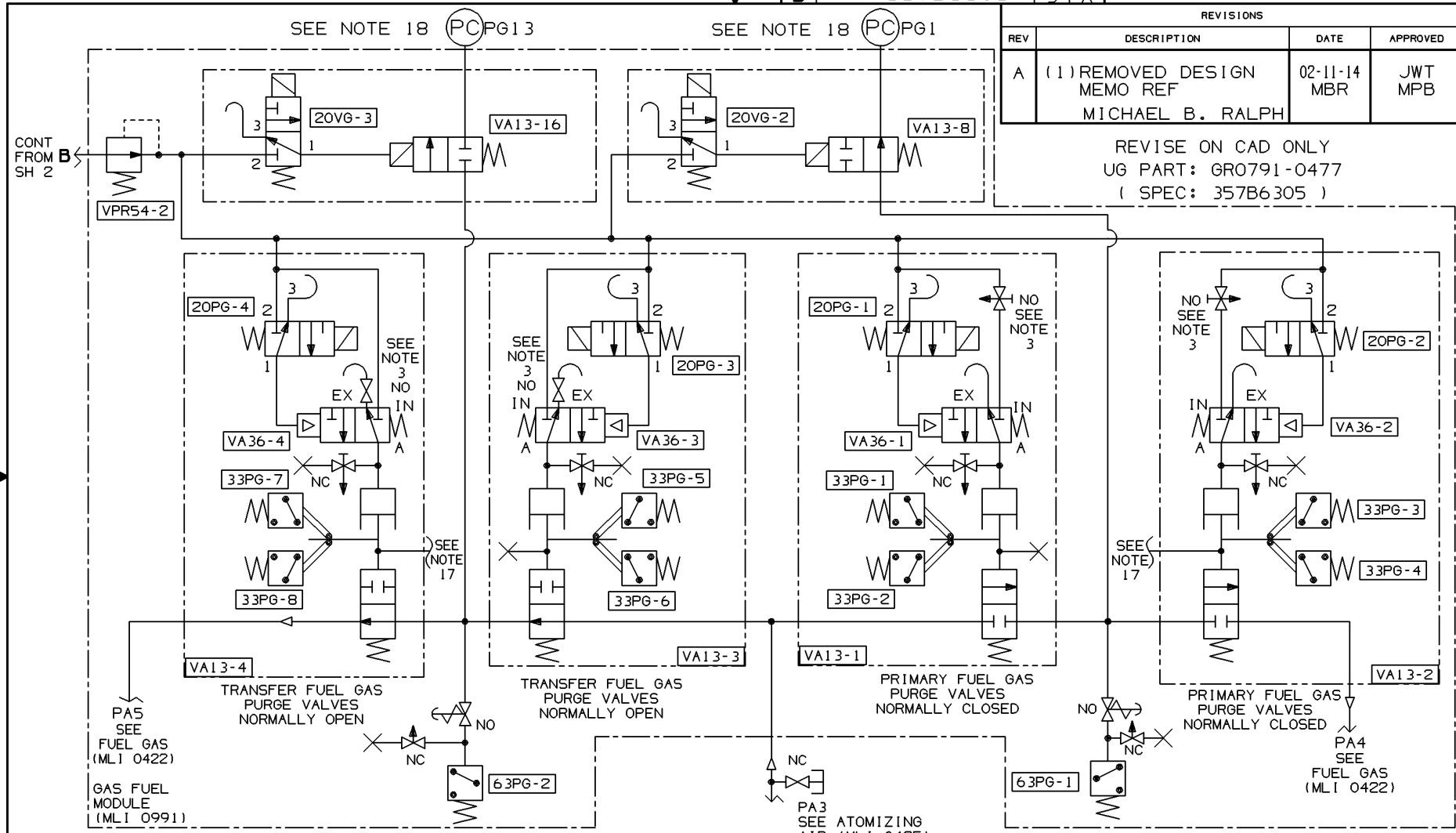
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GENERAL ELECTRIC COMPANY GAS TURBINE Greenville, SC		SIZE <b>B</b>	CAGE CODE	DWG NO 357B6 305	0477
DRAWN FRED J. SERRA	02-08-20				
ISSUED FRED J. SERRA	02-08-23	SCALE NONE			SHEET 4

DISTR  
TO

REVISIONS			
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GENERAL ELECTRIC COMPANY GAS TURBINE Greenville, SC GE Power Generation	SIZE <b>B</b>	CAGE CODE	DWG NO 357B6 305	0477
DRAWN FRED J. SERRA 02-08-20				
ISSUED FRED J. SERRA 02-08-23				
SCALE NONE	SHEET 5			

DISTR TO