

NOTE(S):

1. SEE DEVICE SUMMARY (MLI 0414) FOR CONTROL DEVICE SETTINGS.
2. ONLY ONE LUBE OIL COOLER IS TO BE IN SERVICE DURING NORMAL SYSTEM OPERATION.
3. ORIFICE FLANGES HAVE FOUR PLUGGED TAPPED HOLES UNLESS OTHERWISE SHOWN.
4. RECOMMEND THAT PIPING CLEANLINESS BE VERIFIED BEFORE INSTALLATION.
5. THROTTLING VALVE TO BE ADJUSTED TO INDICATED FLOW RATES (SEE NOTE 17) WITH VTR1-1 & VTR2-1 IN FULL FLOW TO COOLER POSITION.
6. COOLING SYSTEM EQUIPMENT IS DESIGNED TO OPERATE WITH THE FOLLOWING COOLANT: 55% PROPYLENE GLYCOL & 45% WATER WITH CORROSION INHIBITORS.
7. APPROXIMATE SYSTEM COOLANT CAPACITY EXCLUDING CUSTOMER SUPPLIED FIELD PIPING IS 1500 GALLONS (5678 LITERS).
8. PIPING DESIGN PARAMETERS: MAXIMUM PRESSURE = 150 PSIG (10.55 kg/cm<sup>2</sup>)  
MAXIMUM TEMPERATURE = 200°F (93°C)
9. REFER TO GEI 41004H FOR COOLING WATER RECOMMENDATIONS FOR CLOSED SYSTEMS.
10. CUSTOMER SUPPLIED INTERCONNECTING PIPING SHALL BE DESIGNED WITH HIGH POINT VENTS AND LOW POINT DRAINS AS APPROPRIATE.
11. CONTINUOUS FLOW REQUIRED DURING GAS TURBINE/GENERATOR OPERATION TO PREVENT AIR ACCUMULATION IN THE TOP OF THE GENERATOR COOLERS.
12. PRESSURE DROP CW6 - CW7 = 36.0 PSID (2.5 kg/cm<sup>2</sup>)  
CW12 - CW13 = 25.0 FT OF WATER (7.6 M OF WATER)
13. FROM CONNECTION CW6-CW7: GAS TURBINE HEAT REJECTION = 95,250 BTU/MIN (1673 KW)
14. MAXIMUM OPERATING SUPPLY PRESSURE: CW6 = 125 PSIG (8.7 kg/cm<sup>2</sup>)  
CW12 = 125 PSIG (8.7 kg/cm<sup>2</sup>)  
MAXIMUM STATIC SYSTEM PRESSURE (MECHANICAL DESIGN LIMIT):  
CW6 = 125 PSIG (8.7 kg/cm<sup>2</sup>)  
CW12 = 125 PSIG (8.7 kg/cm<sup>2</sup>)
15. MAXIMUM ALLOWABLE COOLANT TEMPERATURE AT CW6 = 126°F (52°C)  
CW12 = 120°F (48°C)
16. TEMPERATURE TO THE GENERATOR SHALL NOT BE LESS THAN 20°F (-6.7°C).

COOLANT INLET TEMPERATURE	GENERATOR HEAT REJECTION TYPICAL
49.1°F (9.5°C)	96,934 BTU/MIN (1703 KW)
95°F (35°C)	87,452 BTU/MIN (1538 KW)
120.0°F (49°C)	83,837 BTU/MIN (1465 KW)

17. COOLANT FLOW RATE: CW6 = 967 GPM (3,660 LPM)  
CW12 = 1519 GPM (5750 LPM) (TOTAL FOR ALL COOLERS)
18. ORIFICE IS NOT INTENDED FOR FLOW MEASURING PURPOSES, ORIFICE USED ONLY FOR FLOW CONTROL.
19. FLOW MEASURING ORIFICE & THROTTLING VALVES TO BE SUPPLIED BY CUSTOMER IF REQUIRED TO MEET STATED FLOW RATES AND PRESSURE.
20. A STRAIGHT PIPE LENGTH UPSTREAM OF THE FLOW MEASURING ORIFICE EQUIVALENT TO 10 PIPE DIAMETERS IS RECOMMENDED.

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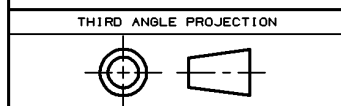
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED


REVISE ON CAD ONLY  
UG PART: GR0791-0420  
( SPEC: 357B4697 )

2	SYM, PP	277A2415
1	APLD PRAC, GENL MACH	348A9200
IT.	NOMENCLATURE	IDENT
LIST OF COMPLEMENTARY DOCUMENTS		

—	—	—	REV	REV STATUS
3	2	1	SH	OF SHEETS



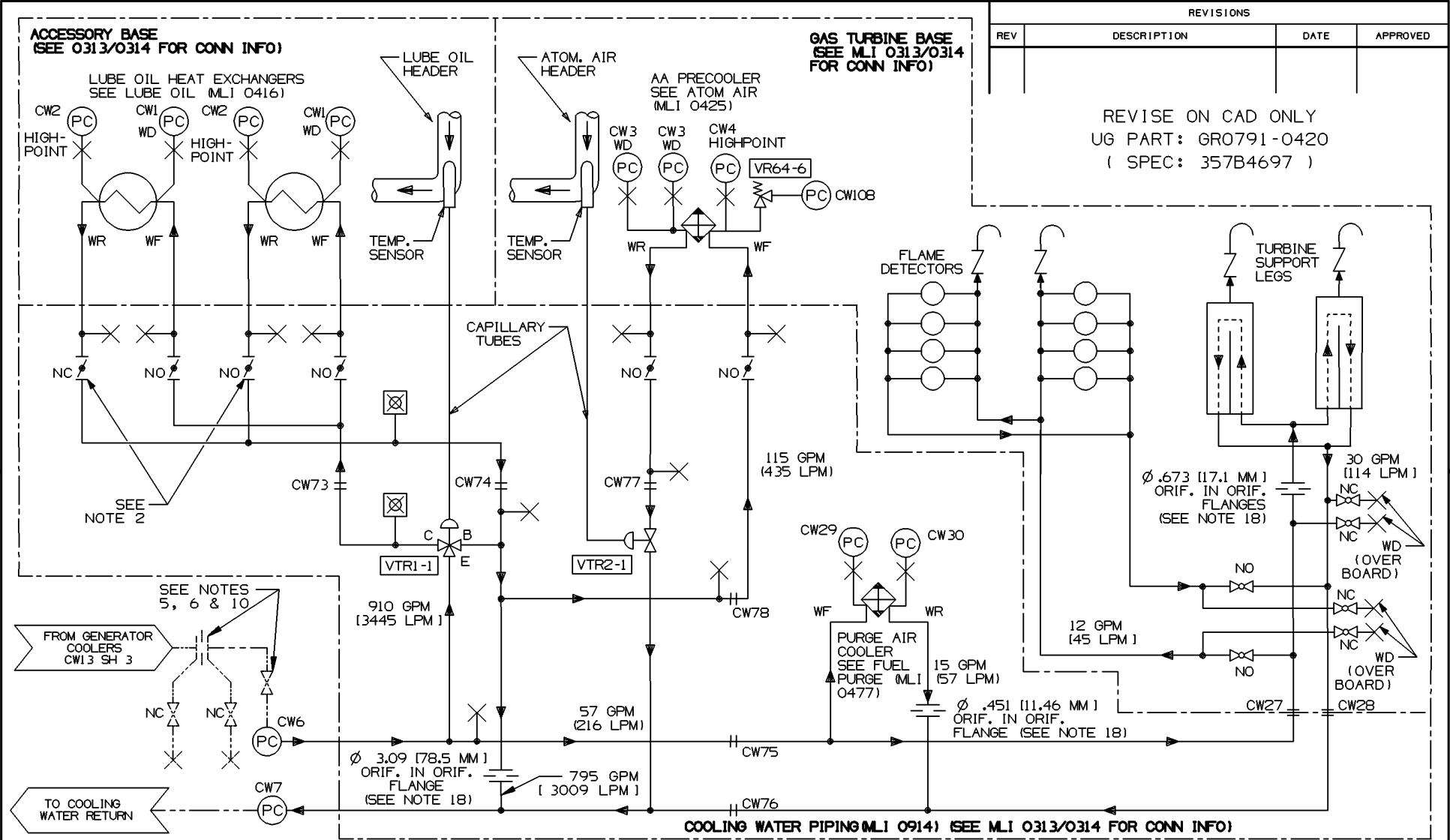
DT-1N

UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE		 GE Power Generation		GENERAL ELECTRIC COMPANY	
DIMENSIONS ARE IN INCHES.		DRAWN F.J. SERRA		01-11-30				GAS TURBINE	
TOLERANCES ON:		CHECKED J.T. BROWN		01-12-11				Greenville, SC	
2 PL DECIMALS ± -		ENGRG CHARLIE J. MENTA		01-12-11		DIAG, SCHEM PP-COOLING		FIRST MADE FOR ML-7A1PEA246-1T4 0420	
3 PL DECIMALS ± -		ISSUED F.J. SERRA		01-12-11					
ANGLES ± -		QUAL-CONT J.W. TRAYLOR		01-12-11		SIZE		CAGE CODE	
FRACTIONS ± - ✓						<b>B</b>		DWG NO	
APPLIED PRACTICES 348A9200		SIM TO:		357B2725		SCALE		NONE	
								SHEET	
								1	

DISTR TO

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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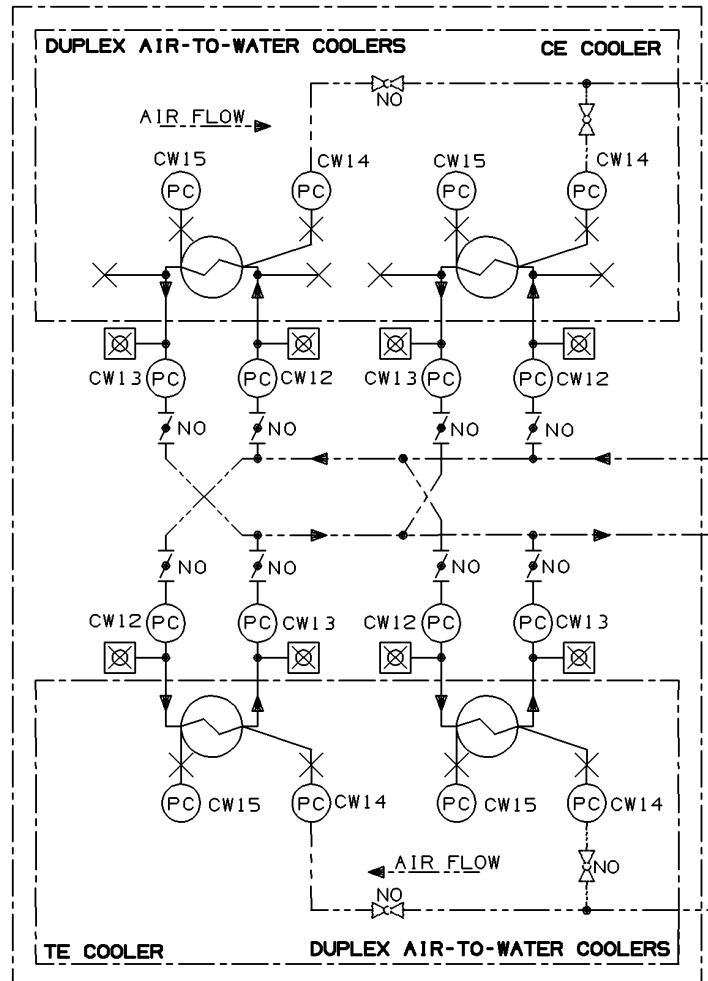
 GE Power Generation		GENERAL ELECTRIC COMPANY GAS TURBINE Greenville, SC
DRAWN F.J. SERRA	01-11-30	
ISSUED F.J. SERRA	01-12-11	

SIZE <b>B</b>	CAGE CODE	DWG NO 357B4697
SCALE NONE	SHEET 2	

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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UG PART: GR0791-0420  
( SPEC: 357B4697 )



WF

WR

Ø .125 ( 3.18 MM )  
ORIFICE  
BY CUSTOMER  
SEE NOTE 11

FROM COOLING WATER  
SUPPLY

TO GAS TURBINE  
(CW6, SH.2)

GENERATOR  
(SEE MLI 0313/0314 FOR CONN INFO)

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GENERAL ELECTRIC COMPANY GE Power Generation GREENVILLE, SC	SIZE <b>B</b>	CAGE CODE	DWG NO 357B4697
DRAWN F.J. SERRA	01-11-30	SCALE NONE	SHEET 3
ISSUED F.J. SERRA	01-12-11		

DISTR  
TO