

							3	SHEET	<b>IN ANY WAY DETRIMENTAL TO SOLAR TURBINES INCORPORATED.</b>
							2		
							A A REV		

NOTES:

1. SYMBOLS IN THE LEGEND ARE DERIVED FROM ISO STANDARD 1219 (ANSI Y32.10) AND ARE CONSIDERED BASIC STANDARDS. NOT ALL SYMBOLS MAY BE USED ON THIS DRAWING. SYMBOLS SHOWN MAY BE COMBINED.
2. PIPE AND TUBE SIZES SHOWN ARE MINIMUM. ACTUAL SIZES MAY BE LARGER EXCEPT AS NOTED. ALL LINE SIZES ARE IN INCHES. NO METRIC EQUIVALENTS HAVE BEEN ADOPTED.

3 EXTERNAL CONNECTION. REFER TO MECHANICAL INSTALLATION DRAWING 59111-14923 FOR PHYSICAL LOCATION OF CIRCLED CONNECTION POINTS IDENTIFIED BY NUMBER. (FOR EXAMPLE: 2 ).

 CUSTOMER FURNISHED.

 LOOSE SHIPPED FOR SITE INSTALLATION

6 REFERENCE ONLY. PART OF ENGINE ASSEMBLY.

7 REFERENCE LOW BTU GAS FUEL SYSTEM SCHEMATIC 59111-8149545

9 CONNECTION TO CONSIST OF 10 INCHES (  $\pm 0.25$  ) OF 3/8" TUBING

10. A MAXIMUM OF ONE TRAP IS PERMITTED IN THE TUBING RUN BETWEEN THE PCD SENSING FOR AND THE LOW SIDE OF TRANSMITTER TP034. ORIFICE F0938-1 SHALL BE INSTALLED AT THE LOWEST POINT OF THIS TRAP. THE CONDENSATE IS TO BE DRAINED TO THE DRIP PAN.

### LEGEND


(REFERENCE INDICATORS)

FLUID LINES		ACTUATORS, CONTROLS AND COMPONENTS		FLUID DEVICES					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	LETTER CODE	SYMBOL	DESCRIPTION	LETTER CODE	SYMBOL	DESCRIPTION
	MAIN LINE		SPRING	AC		ACCUMULATOR	FSA		DRAINER/COALESCER, AUTOMATIC DRAIN TAP
	BRANCH LINE		SPRING ASSEMBLY, (ADJUSTABLE)	ACP		ACCUMULATOR, EXTERNALLY LOADED			
	PILOT/CONTROL LINE		LEVER, MANUAL	ACP		ACCUMULATOR, PRE-LOADED	H		HEATER
	DRAIN/VENT LINE		PUSHBUTTON, MANUAL	AO		ADJUSTABLE ORIFICE			
	FLEXIBLE LINE/JOINT		FLOAT	AT		AIR TANK	HX		HEAT EXCHANGER
	ENCLOSURE/MODULE OUTLINE		BEARING	B		MOTOR, ELECTRIC (AC OR DC)	L		SOLENOID VALVE, 2 POSITION (TYP.)
	COMPONENT GROUPING		BEARING, JOURNAL/ROLLER				L		SOLENOID VALVE, 3 POSITION (TYP.)
	Lines CROSSING		BEARING, BALL	BP		PUMP/ACTUATOR ASSEMBLY (AC OR DC)	L		SOLENOID VALVE, 3 POSITION (TYP.)
	Lines JOINING		BEARING, THRUST				L		SOLENOID VALVE, 3 POSITION (TYP.)
	PORT, BLANK FLANGED		SEAL	CYL		CYLINDER/LINEAR ACTUATOR	LG		LEVEL GLASS
	PORT, PLUGGED		LABYRINTH SEAL	CYL		CYLINDER/LINEAR ACTUATOR, SPRING RETRACTED			LEVEL INDICATOR
	FLOW DIRECTION (HYDRAULIC)		THERMAL, REMOTE	E		ENGINE, COMBUSTION	LU		LUBRICATOR
	FLOW DIRECTION (PNEUMATIC)		THERMAL, LOCAL	FG		FLOW, SIGHT GLASS	M		MOTOR, FLUID
	REDUCER/ENLARGER		ROTATING SHAFT	FM		FLOW, METER	M		MOTOR, PNEUMATIC
	FLANGED CONNECTION		FAN	FO		FIXED ORIFICE	MU		MUFFLER/SILENCER
	QUICK DISCONNECT CONNECTION		SOLENOID	FA		FLAME ARRESTOR	P		PUMP, FLUID
	THREADED OR WELDED CONNECTION		REMOTE PILOT	FS		FILTER/STRAINER	P		PUMP, PNEUMATIC (COMPRESSOR/BLOWER)
	DRAIN, BELOW FLUID LEVEL		INTERNAL PILOT	FSA		FILTER/COALESCER, AUTOMATIC DRAIN TAP	P		PUMP, FLUID DRIVEN (PROPORTIONAL)
	DRAIN, ABOVE FLUID LEVEL		VARIABLE	FSA		FILTER/COALESCER, MANUAL DRAIN TAP	PCV		VALVE, PRESSURE CONTROL (N.O.)
	DISTRIBUTION BLOCK/MANIFOLD		PRESSURE COMPENSATED				TP		TRANSMITTER, PRESSURE

ZONE / TR	DESCRIPTION	DATE	APPROVED
N/C	INITIAL SUBMITTAL	08-08-00	DEPAZ
A	REVISED TO REFLECT AS SHIPPED CONFIGURATION.	01-02-01	DEPAZ

**CUSTOMER**  
**NETWORK ELECTRIC**  
**CONGRESS**

☒ SUBMITTED FOR REVIEW      DATE 08-14-00

☐ CERTIFIED AS NOTED WITH       DATE \_\_\_\_\_

☒ CERTIFIED FOR CONSTRUCTION      DATE 01-03-01

[illegible]

REFERENCE DESIGNATOR	DRAINING ZONE	COMPONENT PART NUMBER	SYMBOLOGY	COMPONENT DESCRIPTION	COMPONENT FUNCTION	COMPONENT SETTING	SYSTEM NORMAL OR OPERATING DESIGN VALUE	NOTES
F0938-1	F35	12H427-4401		ORIFICE, FIXED	PCD CONDENSATE DRAIN	0.06 INCH (1.5 MM) DIAMETER		△
F0940	G35	908601C1		ORIFICE, FIXED	FLAMEOUT TIME DELAY	0.009 INCH (0.23 MM) EQUIVALENT DIAMETER ORIFICE		△
F0942-1	G36	△		ORIFICE, FIXED	CLEANING FLUID INJECTION (ON-CRANK)			△
F0942-2	E36	△		ORIFICE, FIXED	CLEANING FLUID INJECTION (IN-LINE)			△
F0949	F34	12H427-4500		ORIFICE, FIXED	LIMIT PCD PRESSURE	0.075 INCH (1.9 MM) DIAMETER ORIFICE		
F3937-4	G36	△		STRAINER	PROTECT SPRAY RING (ON-CRANK)	100 MESH		△
F3937-5	E36	△		STRAINER	PROTECT SPRAY RING (ON-LINE)	100 MESH		△
F3991-2	E38	953562C1		STRAINER	PROTECT ORIFICE (ON-LINE)	100 MESH		
L138	H32	1016391-2		VALVE, SOLENOID, 4-WAY	BLEED VALVE DIRECTIONAL CONTROL		OPERATING PRESSURE: 40-175 PSIG (276-1896 KPA.G)	
L190-1	G37	186094-1		VALVE, SOLENOID, 2-POSITION, 2-WAY	ON-CRANK CLEANING SHUTOFF	CV = 4, 5/8 INCH (15.9 MM) DIAMETER ORIFICE	MAXIMUM PRESSURE DROP: 40 PSID (276 KPA.D)	
L190-2	E37	910380C4		VALVE, SOLENOID, 2-POSITION, 3-WAY	PILOT, ON-LINE CLEANING SHUTOFF VALVE	CV = 0.02, 1/32 INCH (0.8 MM) DIAMETER ORIFICE	MAXIMUM PRESSURE: 200 PSIG (1379 KPA.G)	
PCV941-1	F31	1020281-100		VALVE, DRAIN	COMBUSTOR DRAIN	CLOSES AT 2-5 PSIG (13.8-34.5) INLET	NORMALLY OPEN	
PCV941-2	E31	1020281-100		VALVE, DRAIN	COMBUSTOR DRAIN	CLOSES AT 2-5 PSIG (13.8-34.5) INLET	NORMALLY OPEN	
PCV942	G32	1027930-100		VALVE, BLEED	PCD BLEED	40° OPENING		△
R1339	G35	918801C1		RTD	TURBINE AIR INLET TEMPERATURE		100 OHM PLATINUM	
S146-2	E37	190298-16		SWITCH, PRESSURE	PERMIT ON-LINE CLEANING	BY 45 PSIG (310 KPA.G) INCREASING 42 PSIG (290 KPA.G) DECREASING	80 PSIG (552 KPA.G) NORMAL DDPT	
S149	G36	190497-6		SWITCH, AP	FLAMEOUT SENSOR	8 PSID (41 KPA.D) INCREASING BY 4 PSID (28 KPA.D) DECREASING	DDPT	
TP949	H35	1029610-14		TRANSMITTER, PRESSURE	MONITOR PCD	0-300 PSIG (0-2069 KPA.G) = 4-20 MA		
VC4930	F36	915498C1		VALVE, CHECK	AIR INLET DRAIN, SWING CHECK VALVE	0.25 PSIG (1.72 KPA.G) CRACKING		
VI931-3	G35	915370C1		VALVE, INSTRUMENT	GAGE BLOCK (TP949)	OPEN	NORMAL PRESSURE: 125 PSIG (842 KPA.G)	
VR935	E36	120045-15		VALVE, RELIEF	LIMIT ENGINE CLEANING FLUID PRESSURE	120 PSIG (827 KPA.G) CRACKING	NORMAL PRESSURE: 80 PSIG (552 KPA.G)	
VP949-3	E37	186448-1		VALVE, 2-POSITION, 2-WAY	ON-LINE CLEANING SHUTOFF	CV = 12	MAXIMUM OPERATING PRESSURE: 2000 PSIG (15148 KPA.G), ACTUATOR PRESSURE: 80-200 PSIG (552-1379 KPA.G)	



