

FUJI 9.4 MW CONDENSING TURBINE & GENERATOR

Turbine Manufacturer	Fuji	
Туре	Single Casing Extraction Condensing	
Rated Output	9400 KW	
Main Steam Pressure At Main Stop Valve	900 psig	
Temperature	825 F	
Condenser Vacuum	1.227 psig	
Rated Speed	5985 RPM	
Extraction Pressure At Turbine Outlet:		
No. 1 Extraction	163.5 psig	
No. 2 Extraction	135 psig	
No. 3 Extraction	60 psig	
Reduction Gear:		
Туре	Double Helical	
Speed	5985/1800 RPM	
AUXILIARY EQUIPMENT		
1 Main Oil Tank Capacity	2456 gallons	
2 Main Oil Pumps:	0	
Туре	Centrifugal	
Capacity	542 gallons	
Speed	3600 RPM	
Motor	A.C. Motor	

CONDENSING TURBINE

1 Emergency Oil Pump:		
Туре	Centrifugal	
Capacity	146 gallons	
Speed	1750 RMP	
Motor	D.C. Motor	
2 Oil Coolers:		
Туре	Shell and Tube (Vertical)	
Cooling Water	200 GPM	
1 Oil Tank Vapor Extractor:		
Туре	Electric Turbo Blower	
Capacity	348 CFM/min	
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CONDENSING TURBINE GENERATOR

Туре	Horizontal Cylindrical Revolving Field Totally Enclosed	
Output	11750 KVA	
Voltage	12000 Volts	
Current	565 Amps	
Number of Poles		
Frequency	60 HZ	
Speed	1800 RPM	
Exciting System	Brushless	
Cooling System	Totally Enclosed Water-Air Cooled	
1 Brushless Exciter:		
Output	82 KW	
Voltage	D.C. 195 Volts	
Current	D.C.421 Amps	
Speed	1800 RPM	
Number of Poles	12	
1 Permanent Magnet Generator:		
Output	3 KVA	
Voltage	220 Volts	
Current	7.87 Amps	
Speed	1800 RMP	
Condenser:		
Manufacturer	BASCO	
Туре	Horizontal, straight tube 71.25 x 6 Btu/hr	
Size	29' x 75" Diameter	
Capacity	75000 lb/hr	
Exhaust Pressure	2.5 inch HgA	
Cooling Water	85 F	
Minimum Cooling Water	9500 GPM	

Condensing Turbine

SPARE PARTS

1 Set Bearing Generator	
1 Set Pad for No. 1 Journal Bearing	
1 Set Pad for No. 2 Journal Bearing	,
1 Set Pad for Thrust Bearing	
1 Gland Packing Front (Labyrinth Seal)	
1 Gland Packing Rear (Labyrinth Seal)	
1 Journal Bearing No. 1 Turbine	
1 Journal Bearing No. 2 Turbine	
1 Set Metal Bearing	
1 Bearing No. 1 Turbine	
1 Bearing No. 2 Turbine	
1 Complete Set of Turbine Blades for last three stages	

Condensing Turbine

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INVENTORY OF EQUIPMENT CONDENSING TURBINE

CONDENSING	TURRINE	- 9400 KW
COMPTHOMA	LOMBINE	- JTUU IX YY

REDUCTION GEAR- 5985/1800 RPM

- 1 MAIN OIL TANK 2450 GPM
- 1 MAIN OIL PUMP 542 GPM
- 1 EMERGENCY OIL PUMP
- 1 AUXILIARY OIL PUMP
- 2 OIL COOLERS 200 GPM
- 1 GENERATOR- 11,750 KVA/12,000 VOLTS
- 1 BRUSHLESS EXCITER 82 KW
- 1 PERMANENT MAGNET GENERATOR 3 KVA
- 1 CONDENSER (BASCO) 71.25 X 10 BTU/HR
- 1 DUMP CONDENSER
- 1 CONDENSING TURBINE GLAND STEAM CONDENSER 5/8 X 92" LENGTH
- 2 CONDENSATE PUMPS
- 2 COOLING WATER PUMPS
- 1 CURRENT TRANSFORMER
- 1 SURGE PROTECTOR GENERATOR PANAL
- 1 VOLTAGE REGULATOR AND ELECTRO-HYDRAULIC GOVERNOR (1 PANEL)
- 1 CONTROL PANEL FOR TURBINE AND GENERATOR
- 1 LOCAL CONTROL PANEL FOR TURBINE
- 1 COVER TURBINE
- 2 DC MOTOR PANELS
- LOW PRESSURE FEED WATER HEATER
- 1 HIGH PRESSURE FEED WATER HEATER
- PARTS FOR THE CONDENSER
- 1 ACCUMULATOR
- 1 OIL FILTER
- 1 OIL PURIFIER

- 4 BOXES MOTOR CONTROL CENTER
- 1 EXTRACTOR DRAIN VALVE (CONTROL PANEL)
- 1 BOX (THERMOMETERS AND MANOMETERS
- 1 MOTOR CONTROL CENTER
- 4 OIL PUMPS 2 OIL FILTERS 8 SMALL PUMPS -
- 4 PUMPS (LIME SLURRY)
- 8 WORTHINGTON PUMPS 8 SCREEN FILTERS
- 13 SMALL ELECTRIC MOTORS
- **8 INJECTION CHEMICAL PUMPS**
- 14000 A/S FIBERGLASS FOR OIL

LIST OF SPARE PARTS

GENERATOR (TWO) BOX NO. 2 (CONDENSING TURBINE)

1 SET BEARING GENERATOR (TWO) BOX NO.3 (CONDENSING TURBINE)

1 SET SPARE PARTS FOR EXTRACTION CHECK VALVE
GRAPHITE PACKING (EXTRACTION CHECK VALVE) SPARE
PARTS FOR OIL PUMPS
PACKING (CONTROL VALVE) 1 SET PAD FOR NO. 1
JOURNAL BEARING 1 SET PAD FOR NO.2 JOURNAL
BEARING 1 SET PAD FOR THRUST BEARING

BOX NO.5 (CONDENSING TURBINE)

1 GLAND PACKING FRONT (LABYRINTH SEAL) 1 SET MOVING BLADES (20 PIECES) 1 SET MOVING BLADES (20 PIECES)

1 COMPLETE SET OF TURBINE BLADES FOR THE LAST THREE STAGES

BOX NO.7 (CONDENSING TURBINE)

I GLAND PACKING REAR
(LABYRINTH SEAL) I BEARING NO. 1
TURBINE I BEARING NO.2 TURBINE I
SET METAL BEARING (TWO)

BOX NO. 13,14,15,16 (CONDENSING TURBINE)

SPARE PARTS FOR MAIN STEAM VALVE AND TOOLS

SEVERAL BOXES OF TECHNICAL MANUALS AND ENGINEERING DRAWINGS