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DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY

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1 No. 17 MW Alstom make TG set, Inlet Pressure = 42 Kg/cm²

GENERAL SPECIFICATIONS

Make : Alstom
Model : T167 - 215
Inlet Pressure : 40bar
Inlet Temperature : 465° C
Condenser Pressure : 0.072bar, Temp 40° C
M.C.R : 78 TPH, Max 857 PIH
0.35bar requirement
0.35 bar = 108° C (gauge pressure)
Number 1 Heater : 2bar (a) = 121° C 3.38 Tonnes
Number 2 Heater : 7bar (a) = 165° C 3.08 Tonnes
Condenser : 59 TPH
Y02 Heater : 100° C
Speed : 3,000 rpm
Output : 17 MW @ 5.5Kv
Cycle : 50 Hz

UNIT DETAIL

	UNIT 1	UNIT 2	UNIT 3
Commission Date	Jan 1966	Sept 1969	Dec 1969
ID Number	3299	3353	3354

Run Hours	71,000	47,000	46,000
Stops – 72 hrs or more	32	28	36
Number of starts after 72 hrs	115	168	173

PLANT SIZES & WEIGHTS

	WEIGHT (Tonnes)	SIZE (Tonnes)
ALTERNATORS		
Stator	32.5	6500 x 2700 x 2500
Rotor	10.0	550 diam x 6100
TURBINES		
Top Casing	12.5	5000 x 3600 x 2000
Bottom Casing	20.0	5600 x 3600 x 2000
Rotor	5.0	2000 diam x 6000
Condenser	31.0	6400 x 3400 x 5100
Tanks	6.5	3000 x 3900 x 7000

The above equipment is presently stored at two sites.

Site I.

The three turbine impellers, housings, alternators and rotors are stored in containers and on container flats in a secured warehouse. They are stored under plastic tents in both a thermostatically and humidity controlled atmosphere.

Site II.

The three condensers, tanks, pumps, de-aerators and other ancillary equipment (outlined below) are stored in a secured depot with the majority of the equipment being containerized.

Container TPHU 645664 7

- 6 Extraction pumps
- 6 Extraction pump motors
- 6 Extraction pump suction chambers
- 3 spare extraction pump spindles
- 3 sight glasses and pipework (probably oil tank)
- 3 + 3 Valve chest cover panels
- 4 spare rear alternator bearings
- 1 front alternator bearings – spare
- 1 Extraction pump impeller - spare

Container MLCU 229977 0

- Numbers 2, 3 and 4 turbine governor – oil pump housing (front hydraulic unit pedestal)
- 3 turbine cylinder covers
- Numbers 2, 3 and 4 alternator bearing housing
- Numbers 2, 3 and 4 governor control linkages

Container MLCU 212380 0

- Numbers 2, 3 and 4 Excitation units (complete)
- 3 turbine cylinder covers
- Drum of new spare condenser tube erosion shields
- 2 drums assorted spares
- 3 AC oil pumps
- 1 DC oil pump
- 1 spare oil pump

Container GSTU 416747 6

- Numbers 2, 3 and 4 main steam inlet control valves
- 2 control valve handwheels
- 2 condenser CW valves
- 2 half drums of spares

Container XTRU 201486 5

- 3 turbine base plates
- 6 turbine side plates

- 3 alternator base plates
- turbine cylinder covers

Container GSTU 460832 9

- turbine base and front plates
- various steam and water valves
- hydraulic pipework
- 3 hydraulic turbine control units with covers
- 3 steam spray control valves
- 2 constant head chambers
- 10 condenser expansion joints OD 780mm, ID 590mm

Container XTRU 211329 8

- 12 condenser plates (bases for springs)
- 3 oil cooler change over valves
- 3 drains cooler (??) units
- 60 condenser spring
- 6 oil coolers
- 1 water/water cooler
- 2 oil tank sight glasses

Container GSTU 414760 7

- condenser tubes
- 1 electric feed pump on bed – with motor
- 3 water/air cooler units and inlet and outlet caps

Container ITLU 653024 5

- 1 feed pump on bed – no motor
- 1 turbo feed pump unit on bed
- 1 electric feed pump with motor on bed
- 1 electric motor for feed pump
- 1 water/air cooler unit
- condenser tubes

Test Results – Final rotor results

ROTOR	DATE	TEMPERATURE° C		IR at 0.5 kV (megohms)				PI
		AIR	WINDING	ACTUAL		CORRECTED TO 40° C		
				1 min	10 min	1 min	10 min	
	1/11/01							
T4		25	37	3500	15000	3150	13500	4.28
T2		25	37	16000	40000	14400	36000	2.50
T3		25	37	6000	17000	5400	15300	2.80

Test Results – Final stator results

STATOR	DATE	TEMPERATURE° C		IR at 2.5 kV (megohms)				PI
		AIR	WINDING	ACTUAL		CORRECTED TO 40° C		
				1 min	10 min	1 min	10 min	
No 10	9/11/01	23	24					
L1				3250	9000	2435.5	6750	2.77
L2				3000	7500	2250	5625	2.50
L3				6000	9000	2475	6750	2.73
No 12	9/11/01	23	31					
L1				3750	9000	2250	5400	2.40
L2				3750	9500	2250	5700	2.53
L3				3900	9000	2340	5400	2.31
No 11	16/11/01	24	47					
L1				1100	4000	1650	6000	3.63
L2				1050	3750	1575	5625	3.57
L3				1250	4000	1875	6000	3.20

PRODUCT IMAGES





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