

CONTRACT NO. \_\_\_\_\_ ITEM NO. EGT-7900

INQUIRY / PURCH. ORDER NO. \_\_\_\_\_

GENERAL-PURPOSE STEAM  
TURBINE DATA SHEET

Rev	Date	Mech	Client	Issued for
0				

REV	DATE	PROCESS	CHK'D	APPR'D
A				
B				
C				

APPLICABLE TO: ☐ PROPOSAL ☒ PURCHASE ☐ AS-BUILT

1	CLIENT	UNIT 79 EMERGENCY GENERATOR		
2	SITE	NO. REQUIRED 1		
3	SERVICE EMERGENCY GENERATOR TURBINE DRIVER	DRIVEN EQUIPMENT EG - 7900		
4	MANUFACTURER ELLIOTT MODEL BYRHEG SERIAL NO.			
5	NOTE: <input type="radio"/> INDICATED INFORMATION COMPLETED BY PURCHASER <input type="checkbox"/> BY MANUFACTURER			
6	<input type="radio"/> OPERATING CONDITIONS		<input type="checkbox"/> PERFORMANCE	
7	OPERATING POINT	POWER, BKW	SPEED, RPM	
8	NORMAL			
9	RATED	* 750	5000 / 1800	
10	OTHER (2.1.4)	* AT GENERATOR TERMINAL		
11	<input type="radio"/> DUTY, SITE AND UTILITY DATA		RTD/MIN. INLET - MAX. EXH.	
12	APPLICATION IS (UNSPARED)		APPLICABLE SPECIFICATION	
13	<input checked="" type="radio"/> SLOW ROLL REQ. (2.10.4) <input checked="" type="radio"/> HAND VALVES REQ. (3.4.1.4)		API-611 OTHER	
14	DUTY <input checked="" type="radio"/> CONTINUOUS <input type="radio"/> STANDBY		DATED 6/1/96; (REV. 0, 9 PAGES).	
15	<input type="radio"/> UNATTENDED AUTO START (2.1.6)		CONSTRUCTION	
16	LOCATION (2.1.14)	<input type="radio"/> INDOOR <input type="radio"/> HEATED <input type="radio"/> UNHEATED	TURBINE TYPE <input checked="" type="radio"/> HORIZONTAL <input type="radio"/> VERTICAL	
17		<input type="radio"/> OUTDOOR <input type="checkbox"/> ROOF <input type="radio"/> W/O ROOF	NO. STAGES 1 WHEEL DIA., mm (YST. ROW) 445	
18	AMBIENT TEMP., °C:	MIN. -1 MAX. 46	ROTOR: <input checked="" type="checkbox"/> BUILT UP <input type="checkbox"/> SOLID	
19	UNUSUAL CONDITIONS	<input checked="" type="radio"/> DUST <input checked="" type="radio"/> SALT ATMOSPHERE	<input type="checkbox"/> OVERHUNG <input checked="" type="checkbox"/> BTW. BRGS.	
20		<input checked="" type="radio"/> OTHER SANDSTORMS	BLADING: <input checked="" type="checkbox"/> 2 ROW <input type="checkbox"/> 3 ROW <input type="checkbox"/> REENTRY	
21	ELECT. AREA (2.1.13)	CLASS 1 - GROUP D DIV. 2	CASING SPLIT <input checked="" type="checkbox"/> AXIAL <input type="checkbox"/> RADIAL	
22		<input type="radio"/> NON-HAZARDOUS	CASING SUPPORT <input checked="" type="checkbox"/> CENTERLINE <input type="checkbox"/> FOOT	
23	CONTROL POWER	V 120 PH. 1 HZ 60	<input checked="" type="radio"/> VERT. JACKSCREWS (2.1.16)	
24	AUX. MOTORS	V 460 PH. 3 HZ 60	VERTICAL TURBINE FLANGE	
25	COOLING WATER: PRESS, kg/cm²G	4.7 ΔP, kg/cm² 1.05	<input type="radio"/> NEMA "P" BASE <input type="radio"/> OTHER (2.4.9)	
26	FLOW, m³/h	≤ 5 ΔT, °C: 55	TRIP VALVE <input checked="" type="checkbox"/> INTEGRAL <input checked="" type="checkbox"/> SEPARATE	
27	ALLOW. SOUND PRESS. LEVEL (2.1.12)	dBA@ m	INTERSTAGE SEALS <input type="checkbox"/> LABYRINTH <input type="checkbox"/> CARBON	
28	<input type="radio"/> STEAM CONDITIONS			
29		MAX.	NORM.	MIN.
30	INLET PRESS., kg/cm²G	4.5	42.18	42
31	INLET TEMP., °C	391	385	380
32	EXHAUST PRESS., kg/cm²G	12.00	10.54	10.50
33	<input type="radio"/> STEAM CONTAMINANTS (2.11.1.7)			
34	<input type="radio"/> TURBINE DATA			
35	<input checked="" type="checkbox"/> ALLOW SPEEDS, RPM, MAX. ≈ 6500 MIN. ≈ 500			
36	<input checked="" type="checkbox"/> MAX. CONT. SPEED, RPM (1.4.7) 5250			
37	<input checked="" type="checkbox"/> TRIP SPEED, RPM, 5500 BLADE TIP VEL., m/s 137.4			
38	<input checked="" type="checkbox"/> FIRST CRITICAL SPEED, RPM (2.3.2.1) ≈ 9000			
39	<input checked="" type="checkbox"/> EXH. TEMP., °C 292 NORMAL 359 °C NO LOAD			
40	<input checked="" type="checkbox"/> POTENTIAL MAX. POWER, BKW (1.4.19) ≈ 1000 (ATTURB.)			
41	<input checked="" type="checkbox"/> MAX. NOZZLE STEAM FLOW, kg/h 20900			
42	ROTATION FACING GOVERNOR END <input checked="" type="radio"/> CCW <input type="radio"/> CW			
43	<input type="radio"/> DRIVEN EQUIPMENT THRUST, kg (2.9.8)			
44	(VERTICAL TURBINE) (2.9.3)			
45	<input checked="" type="radio"/> WATER PIPING FURN. BY <input type="radio"/> VENDOR <input type="radio"/> BY OTHERS			
46	<input checked="" type="radio"/> OIL PIPING FURN. BY <input type="radio"/> VENDOR <input type="radio"/> BY OTHERS			
CASING DESIGN		INLET	EXHAUST	
MAX. ALLOW. PRESS., kg/cm²G		17.7 (min.)	13.7 (min.)	
MAX. ALLOW. TEMP., °C		399 (min.)	310 (min.)	
HYDRO. TEST PRESS., kg/cm²G		88	26.4	

249