EXHIBIT 3 DT
S-15-01 Hacke 1

ELLIOTT COMPANY - - TURBINE DEPARTMENT
Descriptive Specifications

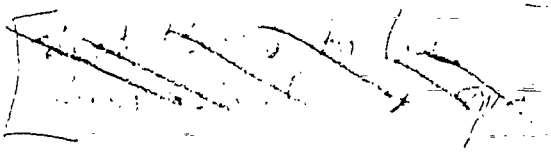
Turbine No. 12161 W Gear No. S.O. 6610
Purchased By ~~City of Marshall, Missouri~~ City of [illegible] E- 131197
For ~~City of [illegible]~~ Missouri Date 2-30-[illegible]

Turbine		Governor Double Oil Relay	Valve Sizes (Order of opening) Inlet	Extraction	Name Plate Rating
H.P. St. Conn. 6" R.H.		Synchronizer Motor (110v. AC)?	1. 2½"	1.	Type 2 NS 12
L.P. St. Conn. None		Speed Changer None	2. 2"	2. —	~~B. Hp.~~-Kw: 4000
Exh. Conn. 48" Down		Emerg. Gov. yes	3. 2"	3. —	R.p.m. 3600
Extrac. Conn. See Below		Trip Mech. yes - oil	4. 1½"	4.	St. Press. 400 #G.
St. Strainer yes		Low Oil Pr. Trip Built-in	5. 2"		St. Temp. 750°FT
Buckets (C) #33		Non-Ret. Valve None	6. 2"		Exh. Press. None
Buckets (R) #40, #50, #60		Thrust Brg. Kingsbury (18 sq.in.)	7.		Exh. Vac. 28"
Shaft Size 9½"		St. End Brg. Pedestal	Hand Valves None		Extrac. Press. Variable
St. End Pkg. Rad Lab & Hub		Exh. End Brg. Cradle	Valve location on nozzle sheet		Rotation R.H.
Diaph. Pkg. Labyrinth		Water Cooled Brgs. None			
Exh. End Pkg. Rad Lab & Hub		Superheat Parts yes			

Instruction Books - Special or No. Special

Special Construction

Three uncontrolled extraction openings for feedwater heating, 4" at 3rd Stage, 4" at 5th stage, and 6" at 7th stage, without blind flanges.
Automatic gland leakoff system. similar to [illegible]
Superintendence of erection only.
Set of special wrenches, tools, & eyebolts.
No duct work furnished by Elliott Co.
Foundation bolt sleeves furnished by purchaser.
Turbine to be suitable for 440 #G. - 775°FTT emergency conditions, for 15 min.
(+) Oil Cooler thermometers mounted in piping.
(+) Thermometer on each main bearing, and ~~[illegible]~~
Circulating water for air and oil coolers to be 90° F.
Gen Air Cooler & Temp. alarm furnished by Ridgway [illegible] housing



PLAINTIFF'S EXHIBIT
ET-36

Gears Size None B.H.P. Ratio Speeds
Baseplate Soleplates
Couplings H.S. #5 Poole, cont. lubr., overhoved to 5½" L.S. None
Oil System Pump Size 6.25 Gal./100r.p.m. Driven From Gov. Piping Material Smls. Steel
Oil Tank Welded Steel (275 Gal.) Oil Strainer 2½" Twin F.F. Turbine Brgs. yes
Oil Cooler yes Auxiliary Pump Turbo (½" [illegible]) F.F. Driven Mach. Brgs. yes

Driven Machine 4000 KW, .80 P.F., 5000 KVA, 3 Phase, 60 cycle, 2400/4156 Volt, 3600 RPM Ridgway Alternator and 35 KW, 125 Volt, 3600 RPM direct-connected exciter.

Auxiliary Apparatus

1 - 6" 600# Trip & Throttle Valve
1 - 6" 600# Steam Strainer
1 - Oil Cooler
1 - #5 Poole Coupling, lubr.
1 - 2½" Twin Oil Strainer
1 - M-N Aux. Oil Pump Gov.
1 - Electric Tachometer } On Gauge Board
1 - 6" Steam Gauges }
2 - 4½" Steam Seal Gauges
2 - 4½" Oil Gauges
Leakoff Control
~~(1 - Press. [illegible]~~
(1 - Ejector
(1 - Gland Condenser
1 - Synchronizer Motor - R/M
~~2~~ 4 - Thermometers

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