

GENERAL ELECTRIC

101A652FX

CONT/ON SHEET 2

SH NO. 1

REV C

TITLE

ADMINISTRATIVE REGULATIONS FOR TESTING
AND ADJUSTMENT OF STEAM TURBINES

FIRST MADE FOR 7TDRV225R18

101A652FX

CONT/ON SHEET 2

SH NO. 1

REQD. TITLE CL-99720

REVISIONS

NAMEPLATE DATA

Turbine # 121756
Model # 7TDRV225R18
Rating 1580 HP
RPM 7500

NORMAL STEAM CONDITIONS

Inlet Pressure 130 PSIG
Inlet Temperature 357 °FT
Exhaust Pressure 15 PSIG
Instruction Book WEI-65421

Rotation when viewed from Governor End CCW

GOVERNOR DATA

Calculated No Load Speed 7880 RPM
Speed Regulation Based On Full Load Travel At Operating Valve 5.0 %
High Speed Stop 8030 RPM (No Load)
Low Speed Stop 6000 RPM (No Load)
Governor Gear Ratio 1/4.375
Primary Relay Lever and Pin Setting --- Combination A
Pin Setting 6

Air motor lever setting "B" length 2.90"
Intermediate lever setting "A" length 3.55"
Primary piston travel .4 corresponds to no load to full load lift on secondary valve.
Primary piston should be 1/8" from bottom positive stop when secondary operating piston is on bottom positive stop.
Use hole #2 on secondary restoring lever

VALVE GEAR DATA

Full load lift of Valve lift rod from cracking of 1st valve 1.69 "
Full area valve lift rod stroke 2.82 "
Overtravel from positive seating to cracking point of 1st valve .125 "

10

11

12

12

12

12

PRINTED TO

ST DiMuzio, 10-17-57

Gen. Steam Turbine

DIV OR DEPT

101A652FX

W. B. Berman, Jr. Oct. 21, 1957

Fitchburg

LOCATION

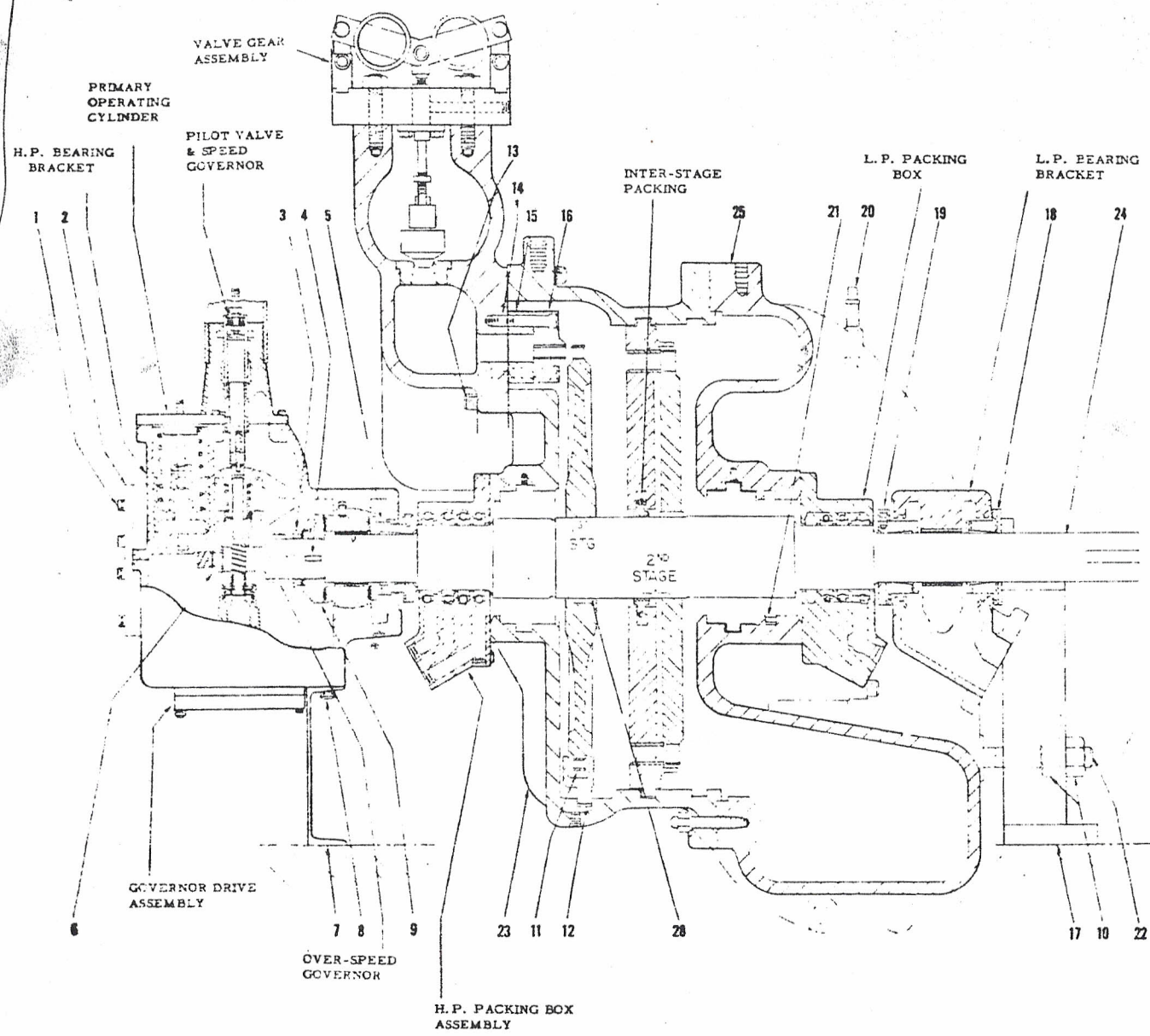
CONT/ON SHEET 2

SH NO. 1

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10-37-42

7500 RPM
8250 RPM Trip
Nc 4800 RPM



1. SOCKET HEAD CAP SCREW
2. END COVER
3. NUT & LOCKWASHER
4. KEY
5. THRUST RUNNER & OIL DEFLECTOR
6. NUT & LOCKWASHER
7. H.P. SUPPORT
8. SOCKET HEAD CAP SCREW
9. THRUST RUNNER
10. NUT
11. BUCKET
12. SHROUD
13. SOCKET HEAD CAP SCREW
14. SOCKET HEAD CAP SCREW
15. NOZZLE SPACER
16. NOZZLE PLATE
17. L.P. SUPPORT
18. OIL DEFLECTOR
19. OIL DEFLECTOR
20. FENTINEL VALVE
21. RING KEY
22. STAY ROD
23. H.P. CASING
24. SHAFT
25. EXHAUST CASING

101A500V C

FIG.1 TURBINE ASSEMBLY