

Date (3-55)

SP-33

Routing

1. Test Floor
2. Turb. Eng.

ELLIOTT COMPANY - ENGINEERING DEPARTMENT
MECHANICAL OPERATION & CHECK-TEST
MULTI-STAGE TURBINES

Date 6/1/55

A. TESTING INSTRUCTIONS

(Turbine Eng. supply all information in "A" and items marked *)

Type Turbine _____ Serial No. _____ S.O. 7402

Gear _____ Serial No. _____ Ratio _____

HP-KW _____ RPM _____ Steam Conditions _____

Driven Machine - ~~Rotor Only~~ - Tested; Not Tested

Generator _____ Serial No. _____

Blower Serial No. _____ S.O. _____ (Refer to Blower S.O. for Bl. Test)

Type Test - Mech. Operation - ~~Brake~~ - Blower - Special - Witness - Certified

Engineering Inspection Required, ~~Not Required~~ VALUE _____

Special Testing Instructions required - Yes, No - Issued

B. ASSEMBLY RECORDS

Initials

(Turbine Eng. Check and initial before test)

1. Rotor Indication Record approved - Yes, No _____

2. Assembly Clearance Record approved - Yes, No _____

C. SETUP - ADJUSTMENT - PREPARATION

(To be signed by Test Foreman before Test)

1. Incomplete Work, Parts Substitutions, etc. Listed on Fault Card -
Yes, No _____

2. Temporary screens installed in brgs. & oil strainer - Yes, No _____

3. Lubrication system flushed, cleaned & refilled - Yes, No JAH

4. Valve gear adjusted to Eng. instructions - Yes, No JAH

5. Pressure regulator test approved - Yes, No _____

6. Difficulties & Corrections listed under "Comments" - Yes, No _____

D. PRELIMINARY TEST - Turbine Alone

1. Lubrication System

(a) Temporary piping or Parts Substitution - Yes, No JAH

(b) Auxiliary oil pump operation satisfactory - Yes, No JAH

(c) Auxiliary oil pump governor satisfactory - Yes, No JAH

*(d) Aux. pump starts (des. _____) Actual 5.5 psi _____

1*(e) Aux. pump stops (des. _____) Actual 5.4 psi _____

*(f) Low press. trip opens (des. _____) Actual 7 1/2 psi _____

*(g) Low press. trip closes (des. _____) Actual 9 psi _____

(h) Main oil pump operation satisfactory - Yes, No WSE

*(i) Bearing Oil pressure (Des. _____) Actual 16 1/2 psi _____

*(j) Governor Oil pressure (Des. _____) Actual 10 psi _____

(k) Oil Leakage corrected - ~~Yes~~, No JAH

(l) Thermometer installation req'd ~~Yes~~, No - Installed - Yes, No ...

(m) Thermometers and wells satisfactory - Yes, No _____

(n) Difficulties & corrections listed under "Comments" - Yes, No WSE

2. Motor Turning Gear

(a) Does motor turning gear engage properly - Yes, No _____

(b) Does motor start & rotate rotor properly - Yes, No _____

(c) Does turning gear disconnect on speed increase - Yes, No _____