

Condition Assessment Manual

Governor Inspection Form and Checklist



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Governor – Inspection Form

General Information:

Date of Site Visit: _____ Unit No. _____

Plant name: _____

Source/s of data: _____

Manufacturer: _____ Age: _____

Rated Output (MW): _____ Max. Output (MW): _____ Rated Speed (rpm): _____

Rated net head (ft) _____ Max. net head (ft): _____ Max. Efficiency (%): _____

Governor Type:

Mechanical -Hydraulic

Analog

Digital

General Governor Description: _____

Maintenance History / Major Repairs Description:

Oil Pressure System:

Flow Distributing Valves:

Control System:

Speed Sensing Devices:

Feedback Device:

Double Regulating Device:

HAP – Condition Assessment Manual – Governor Inspection Form and Checklist

Governor Check List				
Topic	Yes	No	N/A	Comments/Details
Maintenance & Major Repair History				
Is the governor mechanically adjusted per OEM specification?				
Does the Ball Head have any unusual vibration?				
Is the oil motor vibrator turning at 400 to 600 rpm? And oscillating between 0.006/0.007”?				
Does the oil supply main valve plunger move feely?				
Does the pilot valve plunger move feely?				
Is the dashpot oil level correct?				
Does the dashpot plunger take more than 50 seconds to re-center after being pushed down all the way with the bypass and needle valves closed? More than 50 sec. to travel .125” is OK. Less is sign of leakage.				
Are links and pins worn?				
Are Restoring Cable sheaves and cables worn?				
Is the hydraulic system oil level correct?				

Governor Check List - Continued				
Topic	Yes	No	N/A	Comments/Details
Maintenance & Major Repair History - Continued				
Is the hydraulic system oil clean?				
Is there any oil foaming in sump tank?				
Is the float valve operating correctly?				
Are the pump unloader valves operating correctly?				
Are the pressure and level switches calibrated?				
Is the pump taking longer to reach full pressure than previously?				
Are speed changer and gate limit switches operating correctly?				
Do shutdown solenoids operate without binding and sticking?				
Do speed changer motor operate smoothly?				

For overall questions
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