

CHAPTER-6

HYDRO-TURBINE GOVERNING SYSTEM

(Reviewed by Dr. R. Thapar)

6.1 Introduction

Governing system or governor is the main controller of the hydroelectric turbine. The governor varies the water flow through the turbine to control its speed or power output. Generating units speed and system frequency may be adjusted by the governor.

Governing system as per IEEE std. -75 includes following

- a) Speed sensing elements
- b) Governor control actuators
- c) Hydraulic pressure supply system
- d) Turbine control servomotors-these are normally supplied as part of turbine

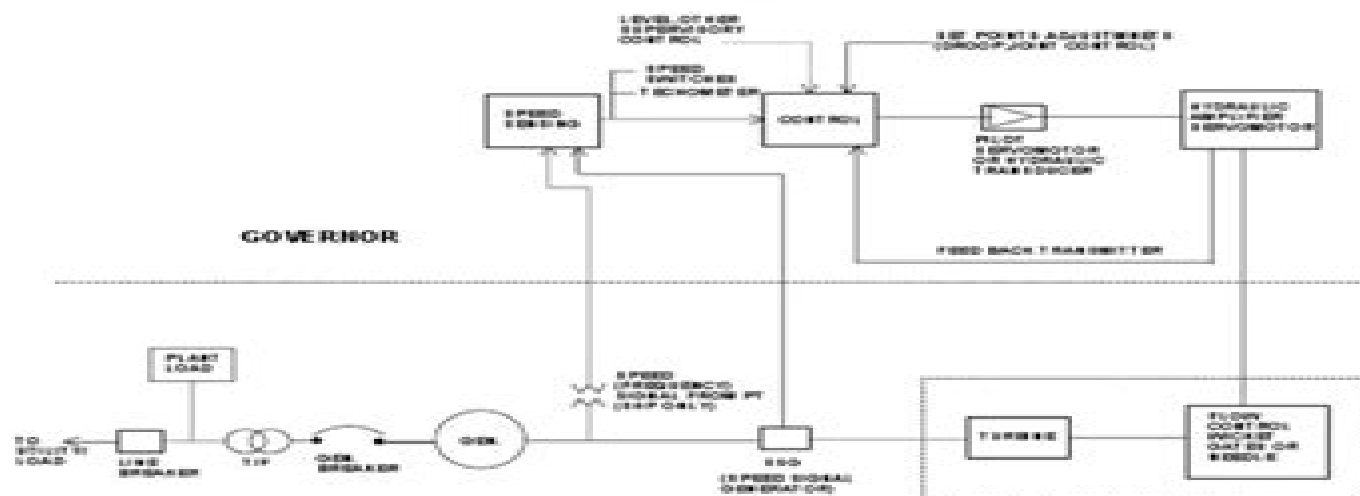


Figure 6.1.: Governing System – Block Diagram (Typical)

The primary functions of the hydroelectric turbine governor are as follows:

- i) To start, maintain and adjust unit speed for synchronizing with the running units/grid.
- ii) To maintain system frequency after synchronization by adjusting turbine output to load changes.
- iii) To share load changes with the other units in a planned manner in response to system frequency error.
- iv) To adjust output of the unit in response to operator or other supervisory commands.
- v) To perform normal shut down or emergency over speed shut down for protection.

In isolated systems the governor controls frequency. In large system, it may be needed for load operation control for the system. A block diagram is shown in figure 6.1. Digital electronic load governor are now employed. Mechanical analogue electronic governors used in earlier plants are also briefly discussed. In small hydro units digital governors are employed for plant control and protection also which is discussed in detail in Vol. II - Control and Protection.

Chapter 6 Hydro Turbine Governing System Ahc

**ASME Performance Test Codes
Committee No. 20.1 on Speed and
Load Governing Systems for Steam
Turbine-Generator Units**

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Annual Report India. Ministry of New and Renewable Energy, 2012 1207-2011 IEEE Guide for the Application of Turbine Governing Systems for Hydroelectric Generating Units , **Modeling and Stability Analysis of a Fractional-order Francis Hydro-turbine Governing System** ,2015 **Governors for Hydraulic Turbines and Pump Turbines** ,1992 **Guide to Specification of Hydraulic Turbine Governing Systems** British Standards Institute Staff,1912-09-30 Water turbines Turbines Control devices Control systems Controllers Automatic control systems Manual control systems Performance Electrical components Test models Pressure vessels Hydraulic accumulators Variable flow rates Safety devices Equipment safety Cut out devices Vibration Environment working Technical data sheets Hydroelectric power stations Ordering Electromagnetic compatibility *Hydraulic Turbines and Governors* United States. Army. Corps of Engineers,1948 *Speed-governing Systems for Hydraulic Turbine-generator Units* American Society of Mechanical Engineers,1980 *IEEE Guide for the Application of Turbine Governing Systems for Hydroelectric Generating Units - Redline* ,2011 *Speed and Load Governing Systems for Steam Turbine-generator Units* ASME Performance Test Codes Committee No. 20.1 on Speed and Load Governing Systems for Steam Turbine-Generator Units,1977

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