

# **GE Speedtronic MK V Steam Turbine**



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This three-day course begins with a system overview; a "big picture" of the GE Speedtronic. Next, the hydraulic controls and components are explained. Other major topics include the system software, master trip circuit, control configuration, and miscellaneous circuits.

## I. System Overview

- · System Block Diagram
- ·Operator Interface
- ·Backup Interface
- · Diagnostics

## **II. Turbine Control Hydraulics**

- · Main Turbine Control Oil System
- · Emergency Governor
- · Backup Overspeed Trip
- ·Thrust Bearing Wear Detector
- · Fluid Actuation System and Fluid Jet System
- · Main Stop Valves
- · Control Valves
- · Combined Reheat Valves

#### III. Software

- · Application Software
- ·Software Voting
- · Diagnostics

### IV. Master Trip Circuit

- · Fundamental Trip Circuits
- · 24 Volt protective Bus
- · 125 Volt Trip Bus
- · Primary Trip Relays
- · Emergency Trip Relays
- ·Logging Functions

## V. Control Configuration

- · Speed Control Description
- ·Load Control Description
- · Flow Control Description

#### VI. Miscellaneous Circuits

- · Turbine Supervisory Instrumentation
- · Power/Load Unbalance Module
- · Logging Functions
- · Protection Module
- · Flame Detection
- · Power Supply Card