

NTPC, Vindhyachal Stage I

6 X 210 MW, Thermal Power Station

State of the art distributed control system for super thermal power station

Customer Benefits

- High efficiency by precise control of main plant parameters (steam, temperature, pressure and MW)
- Extended equipment life
- High plant availability
- High reliability and easy online fault detection
- Advanced diagnostics and monitoring, alarm analysis and performance calculation
- Modern and user friendly human machine interface (HMI)

ABB Solution

- State of the art distributed control system Symphony Harmony
- Latest field instrumentation including transmitters and analyzers
- Modern human machine interface (HMI) and plant information system for single point integration of unit data
- Power station commissioned in 2007



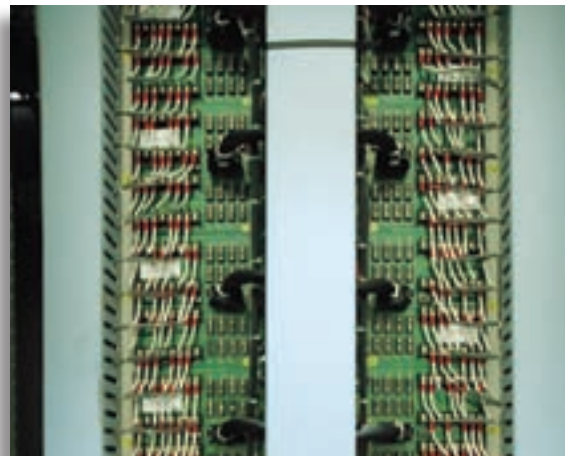
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Control Room



Turbine Area



Symphony Harmony

Symphony Harmony distributed control system



Benefits

- Power Plant specific products and system
- High performance, high capacity process controller
- Comprehensive set of traditional and modern process, regulatory, and sequence control applications
- Fast plant wide communication network
- Composer Engineering Tool: Integral library of over 200 pre-defined algorithms that may be user-configured to support wide-ranging applications

Power generation portal human machine interface and plant information system

Benefits

- Industrial IT for Power Generation.
- Integrated information to promote improved decision making
- Exceptional openness for total enterprise communications
- Plant optimization solution- Significant increase in process uptime while reducing maintenance costs
- Fully configurable system including security, diagnostics, on-line documentation, alarm management, graphics, control tiles and API



ABB's Power Generation Offerings

- Integrated electrical balance of plant solutions including complete plant electricals and communications
- Plant optimization solutions
- Plant automation solutions for turbines, boilers and balance of plant automation, Human Machine Interface and Plant Information Systems
 - Delivery of complete control system solutions
 - Service, rehabilitation and up-gradation of existing control systems



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