

OC 4000 Distributed Control System (DCS)

GE Energy's OC 4000 distributed control system (DCS) delivers superior performance and reliability. It balances the security that comes from individual purpose-built controls with the convenience and data sharing capabilities that can only exist in a common, integrated platform. This integrated platform is highly flexible, allowing it to address the following:

- Modulating Control
- Sequential Control
- Boiler Combustion Control
- Feedwater Pump Control
- Furnace Safety Supervision
- Data Acquisition
- Electric System Control
- Balance of Plant Equipment Control
- Flue Gas Desulfurization Control
- Turbine Control
- Turbine Supervisory Instrumentation
- Combined Cycle Control
- Emergency Shutdown
- Data Linkage to ERP Systems
- Boiler Optimization
- System Wide Efficiency Mapping

Integrated Plant Control

- Meets the requirements of a variety of complicated technological processes for monitoring and control.
- Extends from unit control to data management for ERP systems.
- Monitoring and control of units is performed through flexible network connections and communications gateways.
- Third party systems able to be integrated into the OC 4000 DCS system via the communications gateways.



Improved Plant Operation

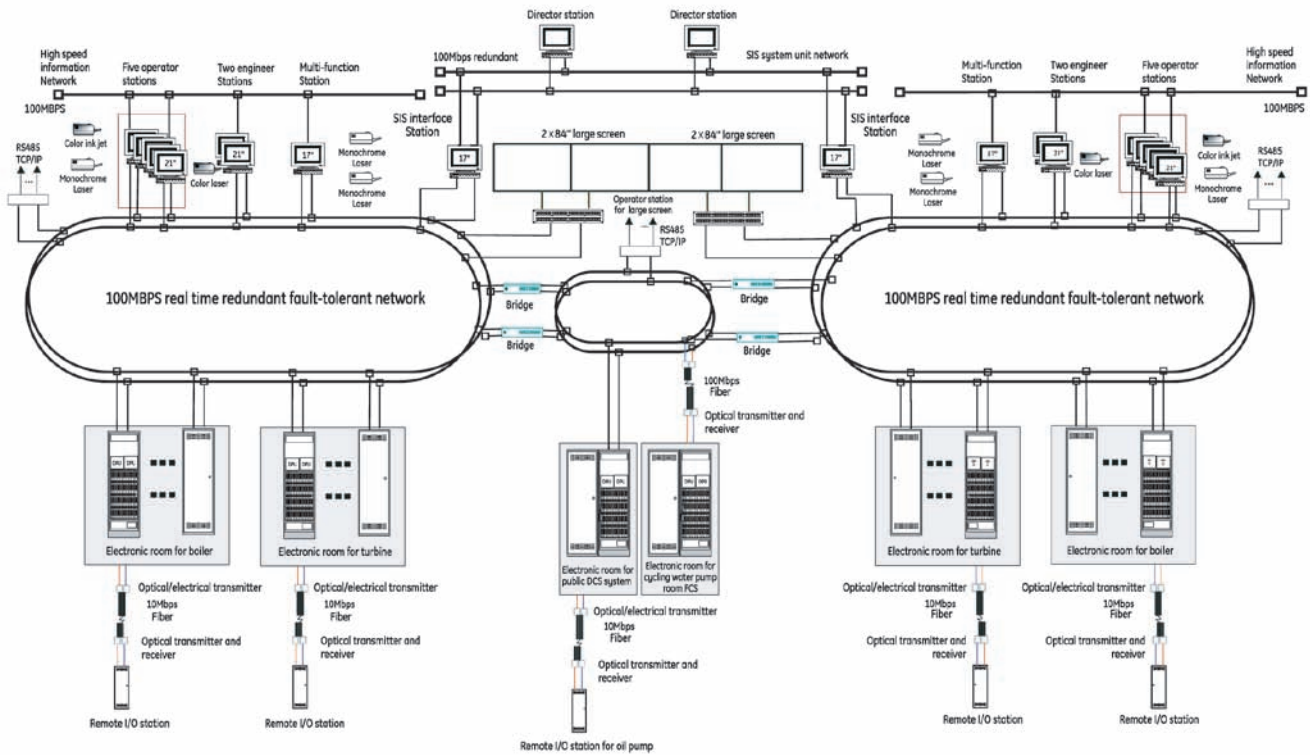
- Since the structures of subsystem processes are similar, various control strategies can be implemented to meet the exact monitoring requirements of the process.
- Integration of functional stations through the system network to improve operator and management flexibility.
- Optimization of plant performance through the use of advanced software to increase return on investment and to reduce emissions.
- Single configuration and diagnostic tool improves programming and troubleshooting, decreasing operator training and maintenance expenses.
- Common alarm system with sequence of events (SOE) capability for all digital input.

Increase Your Profitability

- Common hardware minimizes spare parts, training costs and time and expense associated with start-up.
- Increased availability and reduced downtime through flexible redundancy.
- Eliminates engineered gateways, hard-wired interfaces and duplication, lowering engineering and installation costs.
- Performance optimization and maintenance management software.
- Central or remote I/O options provide flexibility in plant design and reduce installation costs.



fact sheet



Specifications

Networks	100 MB Ethernet
Redundancy	Simplex, dual
System Speed	50 ms
Operating System	Windows®
Repair	Online repair, downloads, hot-swap
Temperature	0~60°C
Accuracy	Specified over entire operating range
Software	Fully programmable w/multiple block libraries
Format	Function blocks diagrams

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Learn more about our control solutions online at:
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