

5/1/97

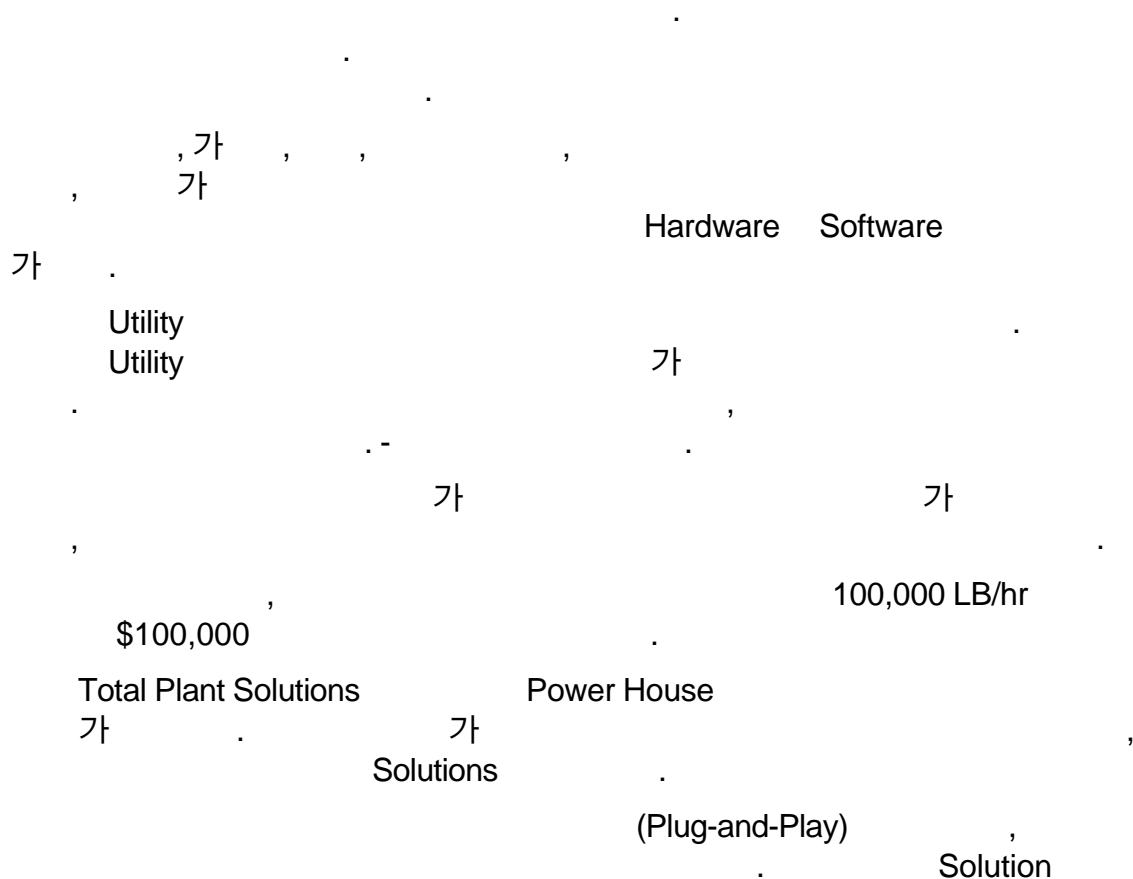
Honeywell

Industrial Energy Notes



IEN-5

Industrial Boiler Control



Description:

Industrial Boiler Control (Package) Oil Gas
, 5가

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- ()
-
-
-

가 5가

, Oil Gas

5가

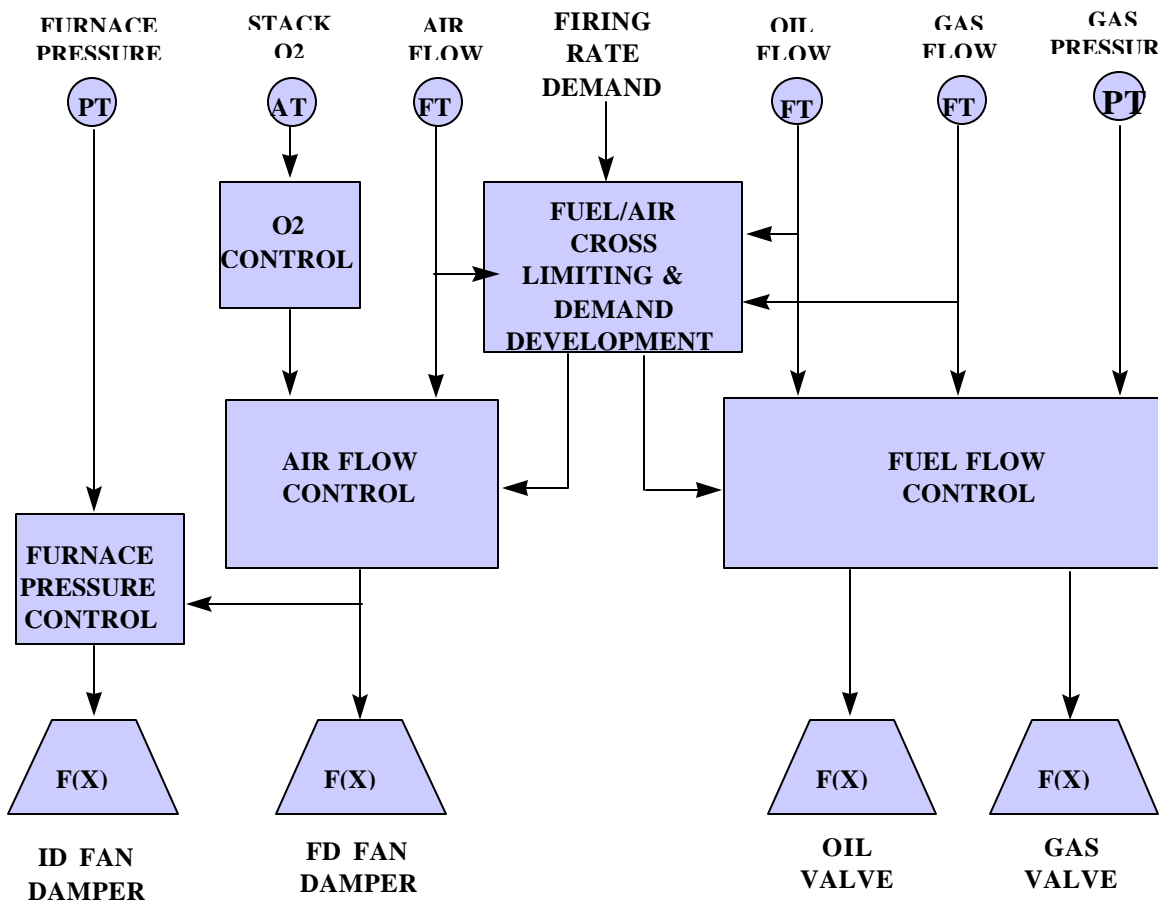
Steam Header Pressure Control ()

(Load Demand)

Combustion Control ()

- Gas BTU
- On-line switching
- (Capability for dual fuel firing)
- Low gas header pressure override,
- (Control loop hierarchy for permitting automatic control)
- NFPA Purge Light Off FD fan inlet vanes
Interlocking logic

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COMBUSTION CONTROL OVERVIEW

Furnace Pressure Control ()

Setpoint

ID (PV) , ID FD NFPA ID FD

/ Interlocking Logic ID

Feedwater Control ()

3가 (Three Element)

가

Element (Single Element) Single Element Three

Steam Temperature Control ()

Spray Water

가 (Economic Load Allocation, ELA), Tie-Line Solution

Industrial Energy Management and Control Solution Set						
Wide Area Optimize	LARGE UTILITY AREA OPTIMIZATION (Hi-Spec OPTIMIZER)					H i S P E C T R A I N E R
Unit Optimize	Individual Boiler Optimization (combustion EVOP)	Economic Load Allocation Multi-header Optimal Control (RMPCT)	Economic Load Allocation Multi-header Optimal Control (RMPCT)	Tie Line Optimization (buy/sell strategies) Real-time Pricing	Economic Load Allocation	
Advanced Monitoring	Total Plant Performance Monitor Boiler Performance Monitoring Cont. Emissions	Accounting and Data Reconciliation Real-time Costs	TG Performance Monitoring Power Factor Calcs	Substation Mon. Load Flow Analysis Real-time Costs	Compressor Performance Mon. Refrigeration Performance Mon. Gas Properties	
Advanced Control	Fuel Management Smart Sootblowing Integrated Header Control (ROC)	Emergency Load Shed Multivariable Header Pressure Controls (RMPCT)	Automatic Turbine Control Startup/Shutdown	Emergency Load Shed and Restart Tie Line Control - Generator loading - Econ. Load Shed	Automatic Startup/Shutdown Multivariable Header Pressure Controls (RMPCT)	
Regulatory Control	Boiler Control Standard Impl. Burner Management	Header Control Standard Impl.	Industrial Steam Turbo-Alternator Dig. Turb. Interface	Power Monitoring and Control Droop Control and Autosynch	Local CTL Interface Surge Control Surge Protection Feedforward Header controls	
Appl. level Equipment	Boilers	Steam System	Turbine Generators	Electrical System	Refrigeration/Compression	