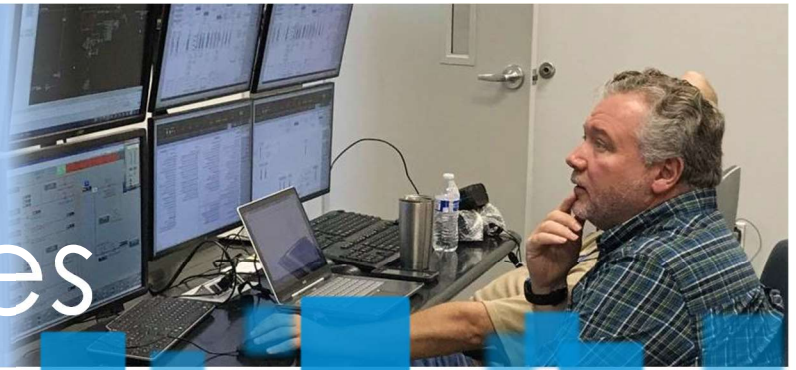


# Simulation Capabilities



## Operator Training Simulator Applications

- Coal power plants
- Oil & gas power plants
- Biofuels
- Gasification
- Combined cycle
- Switchyard, substation
- Carbon capture
- Sulfuric acid plants
- Package boilers & steam distribution
- Fuel conversion
- Pulp & paper
- Hydro power
- Solar power
- Heating, cooling
- Oxy combustion
- Wastewater/potable water
- Desalination
- Oxygen separation
- Electrical grid
- Microgrid
- Environmental equipment changes (AQCS, FGD, SCR, etc.)

## Operator Training Simulator Options

- High & medium fidelity simulators
- Hardware & software upgrades
- Full & partial scope
- Emulated & virtual configurations
- DCS conversions & upgrades
- Industrial processes
- Plant upgrade
- Environmental additions

## Life Cycle Simulator Services

- Process modeling upgrades
- Controls retuning
- Controls re-hosting
- New instructor training
- Multi-year maintenance contracts
- Training curriculum updates
- On-call emergency services
- Hardware replacement programs

## Features

- Train on safety procedures
- Reinforce operating practices
- Comply with environmental regulations
- Equipment stress reduction
- Develop new operator abilities
- Advance skills & qualifications
- Controls validation
- Heat rate awareness
- Optimization against study

## Benefits

- Safety
- Increased asset life
- Reduce forced outages
- Equipment failure avoidance
- Increased uptime
- Faster startup
- Trip avoidance
- Workforce retention

## DCS Systems Supported

ABB  
Emerson  
Foxboro  
GE  
Hitachi  
Metso  
MHI  
Siemens  
Toshiba



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