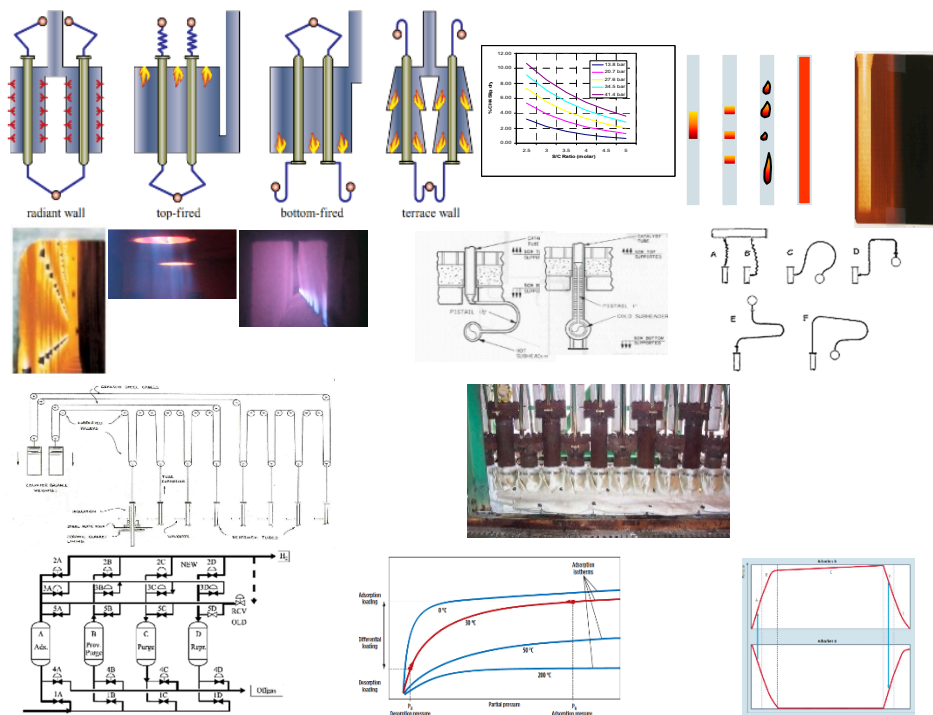


Hydrogen/HyCO Plant Training

Including
Best Practices
Lessons Learned
Equipment Monitoring
Improvements Tips
(Customized, as needed)



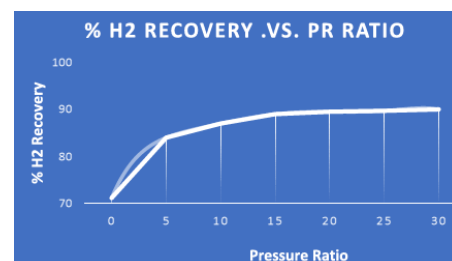
CUSTOMIZED TRAINING-WITH SIMULATION OF HYDROGEN/HYCO PLANTS CONFIGURATION

SINCE 2005

Hydrogen/HyCO Plant Training

by Kinetics Process Improvements, Houston

The comprehensive workshop provides practical insights with a focus on process, reforming, troubleshooting, performance improvements in Hydrogen Plants to improve monitoring, maintenance, reliability & safety



Resources & Expertise

- Provided Training since 2006
- Trained >500 Personnel
- Troubleshooting and Design Experience in all H2 Plant Configurations/Sizes

Objectives & Key Benefits

- To enhance knowledge & understanding of plant operations to improve Reliability & Efficiency
- Target group to include Process, Operating/Maintenance Personnel, and Engineering

References

SABIC, Methanex,
 Methanol Holdings,
 AMPCO, CNC, PLNL,
 N2000, NUTRIEN, AUM,
 CFI

Brief Course Outline

- Hydrogen Technology Updates
- Feed Pretreatment
- Primary/Pre-Reforming
- GHR & ATR configurations
- Combustion considerations
- Waste Heat Recovery
- Shift Reactor system
- CO2 Removal System
- Methanation
- Cold box & Membranes
- Catalyst Considerations
- Hydrogen recovery & improvements
- Steam System
- Metallurgy Considerations
- Environmental Considerations
- Reliability Improvements
- Improve & Optimize Operations
- S/Up & S/Down Considerations
- Performance Monitoring-Equipment
- Hydrogen network improvements
- Hydrogen Plant Model demo

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