

SULFUR UNIT TRAINING

April 14, 2010 – League City (Houston), Texas USA at South Shore Harbour Resort

Who Should Attend? This training is designed for production and processing personnel involved with sulfur recovery and natural gas treating requiring an understanding of the principles of these process operations. This course is also for facilities engineers, process engineers, operations personnel, field supervisors and others who select, design, install, evaluate or operate gas sweetening and sulfur recovery facilities.

Course Outline

Overview of Sulfur Recovery

- Sources of Refinery H₂S
- Properties of Hydrogen Sulfide
- Handling of H₂S in Refineries
- Refinery Flow scheme and H₂S Flow

Amine Treating Units

- Fundamentals of Amine Chemistry
- Description of Common Amines
- The Physical Amine Unit
- Amine Treating Process Equipment

Sour Water Treating

- Sour Water Chemistry
- Feed Preparation
- Sour Water Stripping
- Sour Water Oxidizers

Claus Units

- Fundamental Sulfur Plant Chemistry
- Controlling the Process Front End
- Mechanical Description of the Plant
- Thermal Reactor and Energy Balance
- Catalytic Reaction Section
- Sulfur Recovery, Loading, and Forming

Sulfur Plant Incinerators

- Thermal Incinerators
- Process Conditions/Control

Review of Tail Gas Treating Processes

- Fundamental Process Routes
- Impact of Emission Targets
- Commercial Examples

Instructors

Gary Pitman operated the sulfur, sour water, amine, tail gas, Claus and coker units, then moved on to maintenance and turnaround planning. In 1998 with Paul Orłowski he co-founded Coking.com, CatCracking.com and SulfurUnit.com to promote Safety and Reliability and increase communications and understanding of the environment and regulations.

He has performed Site Safety Audits in Asia, Europe, South America and North America and currently is the subject matter expert for new product development for major equipment manufacturers. He is in high demand for consulting on operations, design, training and commissioning.

Jeanne Rameau began her refining career in the Crude and Vacuum units, then moved on to Coker, Sulfur and Amine. She has coordinated extensively in Unit Construction, Commissioning, Startup and Shut-downs.

Jeanne has been involved in a wide variety of Peer reviews, HAZOPS Process safety management teams, Vendor reviews and Environmental compliance projects.

Included in her experiences, she has worked with teams involved in MDEA conversion, Amine filtration, Construction of tail gas and Sulfur Scrubber units, Planning and Turn-arounds.

What Will You Get Out of It? This one-day course will provide participants with information on the design, operation and optimization of the modified Claus sulphur recovery process, including a review of process chemistry, process equipment, operating problems, tail gas clean-up technologies, and new technologies related to the sulfur recovery industry. A comprehensive full-color set of notes is included.



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