

FEBRUARY | AD CLOSE: JANUARY 6 | MATERIAL DUE: JANUARY 9



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TOPIC: FUNCTIONAL SAFETY FEATURE REPORTS

Summary: Every system planner and operator of plants in the chemical process industries (CPI) must minimize risk by implementing the use of available state-of-the-art technologies and practices where possible. To ensure maximum effectiveness of these measures, a comprehensive system approach is used that considers the entire safety life cycle forming the basis of internationally harmonized standards, such as IEC 61508 (basic standard), IEC 61511 (process technology) and IEC 50156 (furnaces). This month's Feature Report provides practical information on what functional safety means and what to consider when designing and implementing safety instrumented systems (SIS), as well as preventative tips for plant design that will help eliminate or minimize hazards and risk to increase operational safety.

Related equipment and services: Safety instrumented systems, and all types of process automation equipment

Relevant industries: All sectors of the CPI are concerned with safety

TOPIC: FUNCTIONAL SAFETY (PART 2) FEATURE REPORTS

Summary: Plant professionals can take a preventative approach to safety by working to eliminate potential hazards when designing plant facilities and processes. This article offers tips for plant design that will help eliminate or minimize hazards and risk to increase operational safety.

Related equipment and services: Personal protective equipment, including hard hats, boots, gloves, safety glasses, hearing protection, and others, as well as other plant-safety tools and devices

Relevant industries: All sectors of the CPI are concerned with safety

TOPIC: FLUID SYSTEM COMPONENTS FEATURE REPORTS

Summary: Replacing a fluid system component costs more than just the price of the part itself. It also includes paying the procurement engineer as well as the cost for installation and maintenance. But the largest expense incurred is when a plant must shut down a section of its critical infrastructure while the broken component is replaced. This delay results in lost productivity during downtime and can affect a plant's profitability. Extending the life of fluid system components is one way to reduce these replacement costs. This Feature Report provides some guidelines on maximizing the service of life of such components.

Related equipment and services: Fluid system components, including pipe fittings, elbows, connectors, tubing, pipe support systems, packings, O-rings, clamps, seals and so on

Relevant industries: Fluid system components are used in all CPI sectors.

TOPIC: STEAM EQUIPMENT NEWSFRONT

Summary: Generating, handling and control of steam is important for many parts of a CPI plant, including supplying heat for a process, sterilizing and cleaning equipment. This month's Newsfront presents the latest trends, technology and products related to steam.

Related equipment and services: All types of equipment for generating and handling steam, including boilers, steam traps, heat exchangers and more

Relevant industries: All sectors of the CPI use steam

TOPIC: CORROSION

FACTS AT YOUR FINGERTIPS

Summary: Corrosion is a constant concern at most chemical process industries (CPI) facilities because of its potential impact on asset health, process safety and product quality. An understanding of how corrosion impacts common materials of construction, such as stainless steel, can help reduce its negative impact. This one-page reference will review some of the corrosion mechanisms and corrosion resistance of different types of stainless steel.

Related equipment and services: Corrosion-inhibiting chemicals and tools, corrosion-monitoring devices, including ultrasonic thickness monitors, corrosion coupons, coatings, corrosion-resistant-alloy equipment

Relevant industries: All sectors of the CPI are concerned with corrosion

TOPIC: PACKAGING

FOCUS

Summary: At the end of any CPI manufacturing plant is the packaging line. This month's Focus presents the latest products and technology recently introduced to the market.

Related equipment and services: Packaging machines for filling bags, bottles, vials; packaging materials; packaging containers (IBC, bags, and so on)

Relevant industries: All sectors of the CPI Editorial Material for consideration should be sent to senior editor Gerald Ondrey (gondrey@chemengonline.com) before January 5.

TOPIC: WIRELESS SENSORS FOR ASSET HEALTH

ENGINEERING PRACTICE

Summary: Wireless sensing devices on plant assets can allow maintenance and reliability personnel at a plant site to collect data on asset health more efficiently than having to walk around the site. This article discusses the potential benefits of wireless sensing, along with some use cases for this type of technology.

Related equipment and services: Maintenance and reliability tools, sensors, data transmitters, software

Relevant industries: All sectors of the CPI are concerned with maintenance and reliability

TOPIC: DESIGNING A THERMAL OXIDIZATION SYSTEM FOR PYROLYSIS TREATMENT

APPLIED TECHNOLOGIES

Summary: This article describes the development of a specialized multi-stage thermal oxidizer to treat three different waste streams, each with high sulfur and nitrogen content, downstream of a pyrolysis furnace in a biogas plant, while also minimizing NOx formation.

Related equipment and services: Thermal oxidation systems and other emissions-control technologies

Relevant industries: All CPI sectors are concerned with minimizing air emissions

TOPIC: FILTECH

SHOW PREVIEW

Summary: Filtech, a global tradeshow focused on filtration, takes place from February 14–16 in Cologne, Germany. A preview of some of the products being exhibited will be presented.

Related equipment and services: All types of filtration systems, filtration media and the associated equipment (pressure vessels, cartridges, pumps, process-control systems)

Relevant industries: All Sectors of the CPI use filtration Editorial Material for consideration should be sent to senior editor Gerald Ondrey (gondrey@chemengonline.com) before January 5.

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