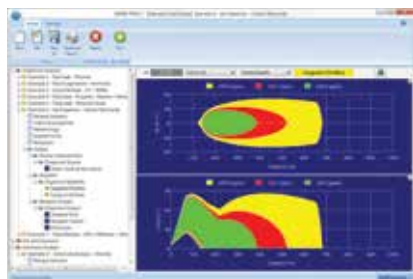


Software & Information Technology



Consequence-Analysis Software Models Explosion Risk



SAFER TRACE 10.2 is an advanced consequence-analysis software package that helps engineers and risk managers to assess, understand, and reduce risk. This version includes enhancements to existing capabilities, streamlined workflows, and bug fixes. Its vapor-cloud explosion and solid-chemical explosion modeling features improve hazard analysis and help in identifying evacuation zones, routes, and safe collection points. The addition of exfiltration modeling enables facilities to prepare for accidental indoor releases, and calculates how long the hazard is expected to remain.

SAFER Systems

www.safersystem.com

Software Includes Model Predictive Control Monitoring Capabilities

The PlantTriage software continuously evaluates the performance of model predictive controls (MPC) and diagnoses issues with disturbance variables (DVs), controlled variables (CVs), manipulated variables (MVs), and the actual MPC controller. It provides a high degree of specificity in the recommended corrective actions. Some of the software's new metrics include: effective controller on-time, controller health, time at constraints, model prediction error, and oscillation detection. In addition to the detailed assessment of MPC perfor-

mance, the software also presents the results in a more user-friendly browser interface.

Metso ExpertTune

www.experttune.com

Mobile App Enables Remote Review of Plant Designs



Engineers can use AVEVA E3D, a Windows 8.1-enabled app, to approve designs on a tablet device from anywhere in the world. With the ability to connect directly to the design model and link its community of designers, a company can overcome supply chain communication challenges. Authorized personnel have secure access to live design models that they can visualize, manipulate, and inspect to check for potential issues such as noncompliance with design standards. Comments can be left for the project design team, and the app's database keeps a record of such feedback.

AVEVA

www.aveva.com

Tool Helps Predict Hull Fouling Risk

Companies that transport materials by ship can assess the risk of hull fouling with this software tool. Intertrac analyzes a variety of data streams to create a vessel's fouling risk profile. The software divides the world's oceans and coastal waters into 64 large marine ecosystems, each with its own set of fouling-related characteristics, including salinity, temperature, thermal range, seasonality, and

typical pH level. A vessel's automatic identification system (AIS) provides route information that establishes the ship's operating profile and identifies hull fouling challenges that the vessel has faced in the past. The software analyzes these data and provides users the information necessary to tailor a coating system to a vessel's specific route in order to maximize operational efficiencies and reduce costs.

AkzoNobel

www.akzonobel.com

Fire Hazard Modeling Software Is Tailored to the Oil and Gas Industry



With the ability to generate detailed models of jet and pool fires, this software fills a gap in safety modeling, taking the place of simple formulas or less-sophisticated software packages for fire hazard modeling. FLACS-Fire was designed to dovetail seamlessly with the FLACS software, sharing the simple interface and advanced modeling characteristics, but can also be used as a stand-alone entity. Adding it to FLACS creates a single modeling platform that eliminates the need to switch between software or perform calculations, thereby improving efficiency. By pinpointing exactly where fire-prevention measures are necessary, the software enables a facility to install them only where needed, rather than throughout the entire site, which can save time and money.

GexCon

www.gexcon.com