Corporate Overview

Kenexis is a process safety consulting engineering firm that provides technical safety services for new and existing facilities including performance–based fire and gas mapping, and risk analysis for industries that manage risks related to chemicals or stored energy.

We specialize in analyzing risks of any process under control or material in containment to quantify the hazard, design reduction targets, and ensure the selected targets are met. Analysis is done using a risk–based process where the selected equipment, maintenance, and testing procedures are tailored to specific requirements of an application. The risk–based approach yields a design that provides the required risk reduction at a manageable cost.

We provide a full complement of training, consulting engineering services, and technical software for process safety departments.

Kenexis was established in 2004 and is a privately held company. Kenexis headquarters is in Columbus, Ohio and Kenexis maintains satellite offices in Houston and Abu Dhabi.

Preventative Services

Preventative services include facilitation, either locally or remotely, of various Hazards Assessments including HAZID, HAZOP, LOPA , FMEA, QRA, SIL Verification, nd Functional Safety Assessments,. We also develop Safety Requirements Specifications including all the documentation, Test Plans, and Testing Optimization.

Mitigative Services

Mitigative services include Facility Siting, Fire and Gas Mapping to assess risk and design performance–based detector coverage, Gaussian Modeling, and Computational Fluid Dynamics.

Training

Process safety training and is available online in recorded sessions with testing, online with a live instructor, and in person on your site our ours.

Process Safety Engineering training topics include:
- Process Hazards Analysis (PHA)
- Layer of Protection Analysis (LOPA)
- Safety Instrumented System Design
- Fire & Gas System Design

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Software

Our software is designed from the beginning to run in a browser on our secure servers. We created desktop of Open PHA and Open Audit from the cloud-based code. Remote facilitation or audit sites with inadequate internet access present a challenge to cloud-based software, so we provide the desktop versions at no cost. Desktop and cloud-based versions can upload and download files easily so the cloud-based features can be utilized.

Kenexis Software includes:

- Fire & Gas Mapping
    - Effigy is designed to follow the ISA TR84.00.07 Guidance on the Evaluation of Fire, Combustible Gas, and Toxic Gas System Effectiveness
- SIS Lifecycle Management
    - Vertigo is our ISA/IEC 61511 SIS Lifecycle Management and SIL Verification software
- Fault-tree Analysis
    - Arbor is our easy-to-use tool for developing complex system reliability models for building and managing fault-tree
- PHA, HAZOP, & LOPA
    - Open PHA powerfully enables HAZOP, LOPA, and Security PHA Review studies, the desktop software is free, and the cloud version adds more powerful functions
- Validation & Auditing
    - Open Audit is designed to support OSHA 1910.119 Process Safety Management based audits
- Procedure Design & Execution
    - OpScope improves process execution through easy-to-use procedure development and procedure execution on mobile devices

Newsletter

I would encourage your team to consider signing up for our Process Safety newsletter. They come out once a month and have one process safety focused article and a one–hour webinar announcement usually on the same subject. We do not abuse our subscribers and we do not sell or provide the information to anyone outside of our company.

Research

Kenexis research and development continues to work with organizations and universities that are increasing awareness and reducing the risks associated with chemicals or stored energy.