

**SAFEPLEX SYSTEMS, INC.**

**SYSTEMS, PRODUCTS, SERVICES, INTEGRITY**

# SPSI AREAS OF EXPERTISE



**TUV Certified  
Safety Expertise**



**AREA #1: PROCESS SAFETY AUDITS** – Governmental agencies such as OSHA have requirements for Safety Audits, starting with a HAZOP or similar process risk analysis, followed by risk assessment and allocation. Such audits have to be performed every (5) years to comply with these regulatory requirements.

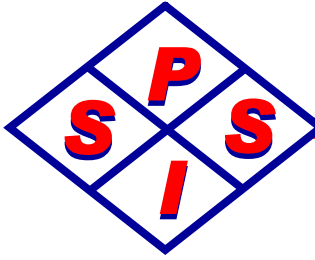
**AREA #2: SAFETY LIFECYCLE SERVICES** - SafePlex Systems, Inc. has many years of process safety auditing experience. Let our knowledge supplement your plant knowledge to fulfill these governmental requirements. We will guide and/or create for you the required evergreen documents so your corporation will be ready for that unexpected OSHA 1910.119 compliance audit. Here are some of the required documentation:

- HAZOP or equal (Renewed every 5 years)
- LOPA or equal (Risk Assessment & Allocation)
- Safety Requirement Specification

**AREA #3: SAFETY INTEGRITY LEVELS (SIL) RELATED SERVICES** – Many of the good engineering practices recognized by agencies such as OSHA have reliability targets within. Emergency ShutDown (ESD), Burner Management Systems (BMS), and soon Fire & Gas Systems (FGS) must be designed and maintained to sustain reliability of operation that meets these reliability goals. Each Safety Instrumented Function (SIF) has to be designed and verified to comply with these reliability targets. SafePlex Systems auditing service gathers data on sensors, logic systems, and valves such as model numbers and failure rates. Then that information is used to verify the reliability of each SIF to meet its target safety performance (SIL) level.

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**AREA #4: TRAINING SERVICES** - In today's litigious culture, having a third party trainer who is approved by the worldwide recognized leader in process safety equipment certification, the TÜV, is a legal asset. SafePlex Systems, Inc. will train and test each student. If the student passes the TÜV approved exam, SafePlex Systems, Inc. and TÜV will certify the technician or engineer's ability to work on SIL rated systems, based on the individual having been factory trained on the SIL rated system hardware. SafePlex Systems, Inc. also provides training for the technician or engineer in the Safety Lifecycle methodology of operating the SIS, testing, and maintaining the SIL rating of the SIS and related equipment.



**AREA #5: SAFETY SOLUTIONS** - To meet the reliability targets within these standards, new products are required to be able to obtain the risk reduction goals. One of the products offered by SafePlex Systems, Inc. is the SILstroke-3. Based on a fault tolerant solenoid arrangement, and with partial stroke testing - the SILstroke-3 product mitigates the risk related to a dangerous failure of a single solenoid arrangement used on critical valves.

After the risk assessment, did you determine that a small SIL rated system was required? Whether its an ESD, BMS or F&G system - SafePlex Systems, Inc. has just the right sized, cost effective solution that is housed in an outdoor enclosure. Installation is simple, just run one or two communications cables to the control room, and pull the field wires locally into SafePlex's enclosure. SafePlex can provide services and solutions to meet all of your safety needs.

