

Safety Integrity Level Selection Consulting

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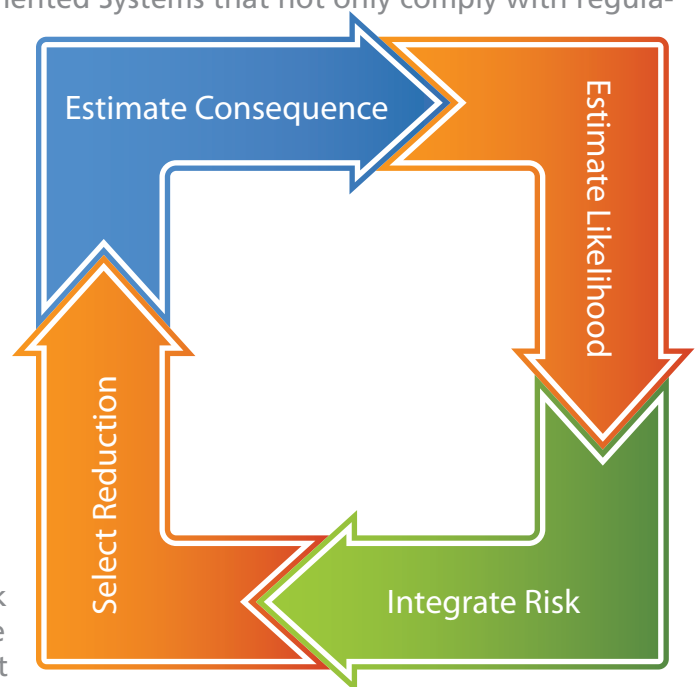
Selection of the proper level of risk reduction is the most critical step in the SIS Design Process. Errors made during this phase will be propagated and amplified leading to either excessive risk in the process or excessive SIS cost. Both of which cost you money!

exida understands the need to design Safety Instrumented Systems that not only comply with regulations, but are good investments in risk reduction. Our objective and accurate fourstep process for selecting SIL is unique. By combining the accuracy quantitative analysis with the speed of streamlined approaches, we are able to select the most cost-effective system with a minimal amount of effort.

Our unique approach allows you to:

1. Defeat Second-Guessing
2. Strengthen management buy-in
3. Comply with regulations

We work together as part of your team, providing the level of support that fits with your existing work processes. Our support ranges from intensive on-site coaching and meeting facilitation to off-site support and review.



Many safety instrumented systems (SIS) are poorly designed because the hazard analysis that determines the level of risk reduction is done poorly, if at all.

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The exida four-step SIL Selection process is the key to selecting safety integrity levels that provide the required level of risk reduction and are cost effective

1. Estimate the Consequence

Risk is the product of consequence and likelihood. Estimation of risk requires the analysis of all of the possible outcomes of an unwanted event. Where other consultants stop at a qualitative guess of consequence, exida has the tools and expertise to perform a rigorous analysis of consequences such as explosions, fires, and dispersion of toxic chemicals. Almost as important as our expertise in the process of performing these analyses is our judgment in determining where advanced techniques are required, and when a simple estimate is adequate.

2. Estimate the Likelihood

The likelihood of an unwanted event can be the complex result of a combination of initiating events and failure of devices that are designed to prevent accidents. exida helps users to determine the likelihood of events by facilitating layer of protection analysis (LOPA) studies of their hazards. LOPA analysis allows accurate likelihood estimation without excessive effort or complicated procedures. Our proprietary databases of industry averages, software tools, and expert facilitators make this process accurate, fast, and well-documented.

3. Integrate the Risk

Consequence zones and accident likelihoods are not valuable in and of themselves. The risk needs to be presented in a fashion that facilitates decision-making for engineers and managers. Risk integration is the process of converting the consequences and likelihoods into impacts on people, property, the environment, and ultimately – profits. By analyzing process layouts, operating parameters, and staffing philosophy exida helps to present risk information in a one-dimensional format that allows straight-forward risk decisions to be made.

4. Select the Required Risk Reduction

The ultimate goal of the SIL selection process is to determine the amount of risk reduction that is required of the SIS. The required risk reduction is the difference between baseline risk and what is considered tolerable. exida helps its clients to create and employ tools for converting subjective risk tolerance philosophies into concrete design parameters such as Safety Integrity Level (SIL) and benefit to cost ratios.

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