

LOPAWorks 3

LOPAWorks® is a specialized tool for conducting LOPA studies. It calculates hazard scenario risks and compares them with risk tolerance criteria to determine if any risk reduction is needed. Scenarios may be associated with hazardous events to facilitate compliance with the IEC 61511 / ISA 84 standards for Safety Instrumented Systems (SISs). Overall facility risk estimates may also be determined to allow comparison with facility risk tolerance criteria. Dominant contributors to risk may be identified easily using the software.

KEY BENEFITS

- Improve the efficiency and reduce the time needed to complete LOPA studies
- Simplify the performance of LOPA studies by separating them from PHA studies while preserving their connection
- Enter and display data using a customizable spreadsheet or form, or a combination of both
- Select failure data from an internal database or use your own
- Perform QC checks for each worksheet
- Perform risk summations automatically
- Link key entries for global updating with their associated data
- Combine risks from multiple processes and their operating modes to allow risk summation for an entire facility
- Determine risks for individual processes, operating modes, hazardous events, hazard types and receptors.
- Identify dominant contributors to risk
- Make data changes and see the impact on risk immediately
- Use the ALARP principle for risk tolerance criteria
- Select from standard reports or create your own custom reports
- Import hazard scenarios from PHAWorks RA Edition and PHAWorks (V5 onwards)

The screenshot shows the LOPAWorks 3 software interface. On the left, there is a 'Scenarios' list with 7 entries. The main workspace is divided into several sections: 'Consequence', 'Hazardous Event', 'Hazard Type', 'Events', 'Initiating Event', 'Enablers', 'Independent Protection Layers', 'Safeguards', and 'Summary'. Each section contains a table with columns for 'Description', 'Type', 'Level', 'Item', and 'Value'. The 'Summary' section at the bottom right shows a table with the following data:

Item	Value
Frequency of Mitigated Consequence	1.3x10 ⁻³
Risk Tolerance (Scenario)	1x10 ⁻⁵
Risk Reduction Required	8x10 ⁻⁴
Risk Reduction Factor	1.3x10 ³

Form for conducting LOPA studies

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