



**Process safety is my responsibility.
Primatech is my choice.**



CONDUCT LAYERS OF PROTECTION ANALYSIS WITH THE INDUSTRY'S MOST RELIABLE AND TRUSTED SOFTWARE

LOPAWorks® allows users to conduct layers of protection analysis (LOPA) for hazard scenarios. The software calculates scenario frequencies using data entered by users or selected from a database provided with the software. Scenario frequencies are compared with risk tolerance criteria to determine what, if any, risk reduction is needed to meet the criteria.

Users may import hazard scenarios from PHAWorks® (V5 onwards) or enter them individually. The software maintains a database of scenarios entered and analyzed. Thus, users may update the analysis at any time. Scenarios may be associated with hazardous events to facilitate compliance with the IEC 61511 / S84 standards for safety instrumented systems (SISs). Users may define other scenario groups if desired.

Dominant contributors to scenario risk may be identified easily using the software. Users may enter failure rate data for initiating event frequencies, enabler multipliers, and IPL PFDs, or select values from the database provided with LOPAWorks®.

Analyses are performed for individual hazard scenarios. However, risk criteria may be used that require scenario frequencies to be aggregated. In such cases users may employ summations in the software to aggregate scenario risk, for example, by consequence type, hazard type, hazardous event, process mode, etc. Various types of risk criteria can be used. An option is provided to employ both primary and secondary criteria so that the ALARP approach can be employed, if desired.

Studies can be conducted in sessions and session participants and other information can be recorded in the software. Study results can be printed for inclusion in reports. The appearance and functionality of the software can be configured in various ways by the user. Standard LOPA templates are provided which can be modified by the user.

CAPABILITIES

- Conduct layers of protection analysis (LOPA) for hazard scenarios
- Calculate scenario frequencies using data entered by users or from a database provided with the software
- Import hazard scenarios from PHAWorks® (V5 onwards)
- Combine scenarios from multiple PHAs into a single project
- Maintain a database of scenarios
- Update the analysis at any time
- Perform analysis for individual hazard scenarios or conduct risk summations over multiple scenarios
- Use various types of risk criteria
- Record participants and other information when studies are conducted in sessions
- Configure the appearance and functionality of the software in various ways

For a demonstration,
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