

exSILentia: PHA Import Plug-In

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PLUG-IN

You have done your HAZOP, identified existing and proposed Safety Instrumented Functions. The next step is to determine if there are any risk reduction requirements, i.e. perform your SIL selection. How do you get all that data from your PHA file in your favorite Safety Lifecycle Engineering Tool?

The exSILentia team has developed an advanced PHA Import plug-in which will allow you to simply import all that data from your PHA file.

WHAT does PHA Import do?

exSILentia® PHA Import plug-in extracts data from existing Process Hazard Analysis (e.g. HAZOP) study files to generate current or potential Safety Instrumented Functions (SIF) to be considered for Safety Integrity Level (SIL) selection and verification.



WHY import the PHA?

As well as minimizing the obvious effort and potential for human error when transcribing information from one application to another, PHA Import provides a clear and traceable relationship between the 'Hazard and risk assessment' and 'Allocation of safety functions to protection layers' phases of the Safety Life-cycle in accordance with clause 8.2.3 of IEC-61511-1. Key considerations of the HAZOP, including the possible Causes of the hazardous event, the resulting potential Consequences and the Safeguards which either exist or are required to reduce the Risk to a tolerable level, are all carried forward into the next phase of the life-cycle for detailed qualitative or quantitative evaluation using the proven techniques and data within exSILentia®.

HOW does PHA Import work?

PHA Import uses the existing functionality of the leading PHA applications, such as Dyadem PHAPro® and Primatech PHAWorks® to generate export files that can be directly read by exSILentia® to identify existing or potential SIF. The tool uses standard worksheet identifiers to transfer key information or user-entered text to search the PHA file for existing or proposed SIF safeguards.

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Features	Benefits
Import from PHA-Pro® and PHAWorks® files.	SIF Cause-Consequence relationships are clearly identified and consistently recorded.
Import from other PHA applications that support CSV exports.	SIF justification is traceable back to the PHA study.
Existing or potential SIF are identified using standard worksheet headers or user-defined rules.	Standards compliant documentation
Equipment database included that can be updated regularly to include the most current equipment data available (extra fee after year 1)	Data transfer time is significantly reduced and human error eliminated.
SIL selection can be performed within the PHA or exSILentia®.	Utilises existing PHA applications to initiate the Safety Life-cycle. Further

WHAT additional support services are available?

exida PHA specialists have many decades of experience in HAZOP and other Functional and Process Safety reviews.

As well as leading and recording these studies, we also offer a customization service for PHA-Pro® and PHAWorks® to enable you to get the most efficient and effective use from your PHA applications.

These services include, but are not limited to:

- ◇ Development of company or site record and reporting templates.
- ◇ Assistance to establish tolerable risk criteria.
- ◇ Preparation of corporate engineering and management procedures for PHA studies.
- ◇ Objective, independent evaluation of the risk reduction required (SIL selection) and the reduction that can be

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