

Hazop+ 2008 Summary

The core feature of the Hazop+ 2008 interface is the Study data sheet. This is based on a tree view comprising nodes and deviations. On selection of a node or deviation the current study records for that node or deviation are displayed in the grid.

When a deviation is selected then the user is able to add new study records. The study record comprises the selected session, node and deviation. In addition the Hazop study record can be configured to contain one or more of the following columns: causes, safeguards, consequences, actions, comments, likelihood, severity, safety ranking, cost ranking and up to 10 custom fields.

Node	Deviations	Likelihood	Severity	Cost Ranking	Causes	Actions	Number	Action
Process fluid line	Reverse process fluid flow	Remote	High	Medium	1	Failure of pressure fluid inlet valve	1	Install Check Valve
Cooling water line	No cooling water flow	Remote	Moderate	Low	1	Failure of cooling water valve to open	2	Install High Temperature Alarm
Cooling water line	Less flow of cooling water	Remote	Moderate	Low	1	Pipe blockage	2	Install High Temperature Alarm
Cooling water line	Less flow of cooling water	Frequent	Critical	Unacceptable	2	Pipe leakage	2	Install High Temperature Alarm
Cooling water line	More flow of cooling water	Occasional	Minor	Low	1	Failure of cooling water valve to close	3	Install Low Temperature Alarm
Heat Exchanger tube	More pressure on tube side	Occasional	Minor	Low	1	Failure of pressure fluid inlet valve	5	Install High Pressure Alarm
Heat Exchanger tube	Contamination of process fluid	Remote	High	Medium	1	Leakage of tube and cooling water goes in	4	Proper maintenance and operator
Heat Exchanger tube	Corrosion of tube	Probable	Moderate	Medium	1	Hardness of cooling water	6	Proper maintenance

Hazop Study Data Sheet

In addition to the Study data sheet the following data sheets let the user define the Hazop study: Summary, Companies & Personnel, Sessions, Drawings, Deviations, Nodes, Causes, Actions, Tasks, Safeguards, Consequences, Risk Ranking and Risk Ranking matrix values.

The following are the distinctive features of Hazop+ 2008:

- Custom fields on all data sheets (up to 10 per sheet) of types text, float, integer, date and drop down values. Each has a default value and min and max values (where appropriate).
- Built-in reports allow the user to report instantly on the visible data sheet. In addition the user can create their own custom reports. The reporting queries use SQL so complex queries can be constructed to examine the Hazop data.
- Multiple causes, safeguards, consequences and actions for each study records.
- Child tasks for each action record.
- Risk ranking with pre-defined cost and safety ranking matrices. Any number of risk ranking matrices can be created.
- Integrated library facility.
- Search facility on study and action sheet.
- Project wizard and templates.
- Import from Access, Excel and text files.
- Export to text files.