

BowTie Plugins

customized barrier solutions

Customized barrier solutions

CGE delivers 'off the shelf' barrier based risk management software. For most users, a default installation meets their requirements. However, the standard functionality can be extended to do even more, by using BowTieXP plugins installed on top of the existing software.

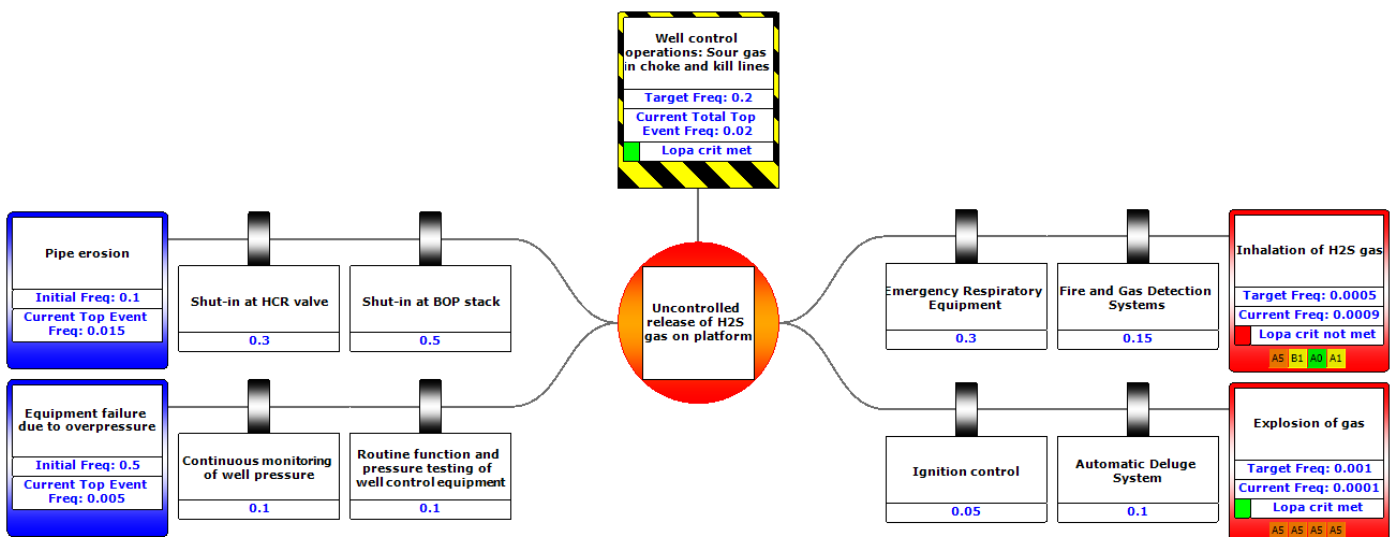
Quantitative & qualitative data

Bowtie diagrams give a better understanding of your risk scenarios and show how these are controlled. In classic bowtie modeling, the decision as to whether there are sufficient effective barriers to control these scenarios, is based on expert judgment.

When your organization has reliable and sufficient safety data available, the LOPA plugin will allow you to use this data to make more objective and substantiated decisions.

Bowtie-based LOPA

Layers of Protection Analysis (LOPA) is a semi-quantitative risk analysis methodology. Hereby the frequency of a negative event is calculated according to the risk reduction delivered by the independent protection layers (barriers). The BowTieXP LOPA plug-in automatically calculates the frequency of a consequence, given the initial frequency of all the threats and the Probability of Failure on Demand (PFD) of the barriers. This allows you to easily compare the target consequence frequency with the reality of daily operations.



Use BowTie Plugins to:



Visualize your LOPA calculations

Traditional LOPA calculations are often performed in spreadsheets. The LOPA plugin makes the LOPA study visual and therefore easier to understand and communicate.



Consider multiple scenarios

Make your LOPA calculations more realistic by taking into account all bowtie scenarios when calculating the frequency of the top event.



Calculate future frequencies

Frequencies and/or probabilities could change over time. The LOPA plug-in allows you to calculate both current and future frequencies.



Create insightful reports

Analyze and share your LOPA calculations by creating useful reports. Some reports will be based on a single scenario (traditional) LOPA calculation, while others will take all bowtie scenarios into account.



Take the next step

Make your risk calculations visible with the LOPA plug-in and put them in an easy to understand, barrier based perspective. This plug-in can be added to both BowTieXP Standard and Advanced.



Contact CGE for a trial license or online demonstration.

