

LOSS PREVENTION & SAFETY

INTRODUCTION:

Loss prevention engineering describes all activities intended to help organizations in any industry to prevent loss, whether it be through injury, explosion, fire, toxic release or asset damaging. TECNOCONSULT is committed to deliver any project according to the state-of-art safety technologies, integrating the safety aspects in each design stage.



QUANTITATIVE RISK ASSESSMENT

The primary objectives of QRA are to systematically identify and quantify the risks to the public resulting from hazards. In particular the main target are:

- To quantify the risks to the public due to hazards associated to the project;
- To analyse the results of the QRA and identify the main contributors to the risk profiles;
- To evaluate the acceptability of these risk levels;
- To recommend, where applicable, practical and effective measures to further reduce the risks.



Fig.1 – Example of radiation effect zone modelling using DNV PHAST ©

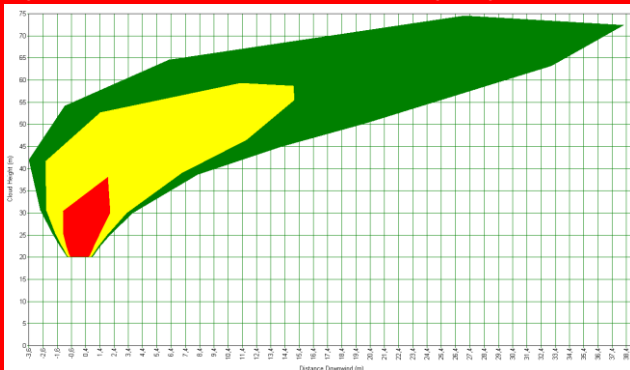
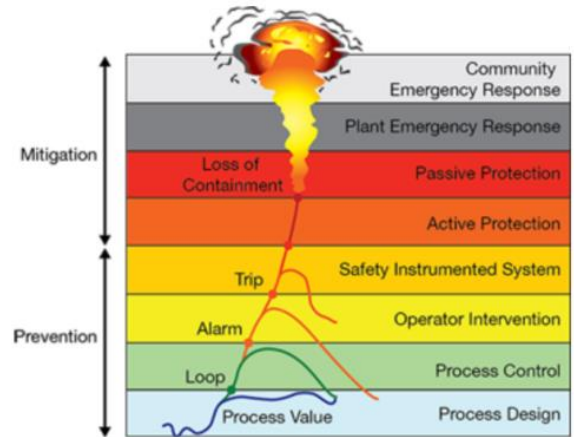


Fig.2 – Example of gas dispersion modelling using DNV PHAST ©

SIL ASSESSMENT

TECNOCONSULT is able to support Client during the SIL Assessment and SIL verification phases, with the following activities:

- Process Hazard Analysis studies (applying HAZOP method)
- SIL assessment studies (applying Risk Graph or LOPA methods)
- SIL verification activities
- Preparation of Safety Requirements Specifications
- Verification of SIS design done by other engineering companies



FIREFIGHTING

TECNOCONSULT designs active and passive fire protection systems according to the international standards, major Companies specifications and local legislation.

Firefighting engineering, fire and gas detection system design, hydraulic sizing of active firefighting system are just some of the Tecnoconsult capabilities in terms of firefighting.



CODES AND STANDARDS

Main codes and standards:

- API Specification and Recommended Practice
- NFPA
- IEC

