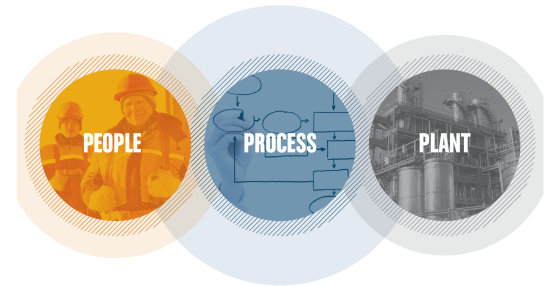


# Tank Farm Risk Assessments

In 2005, the Buncefield fuel depot feeding Heathrow airport was destroyed by a large vapour cloud explosion caused by overflowing of a large gasoline storage tank. Improvements to many terminals worldwide have since been made incorporating the learnings from Buncefield.



To help Tank Farm operators assess and understand the risks associated with their operations, Safety Solutions offer the following services:

- Overfill and spill prevention risk studies —an engineering assessment of the causes and protection in place to prevent a significant spill.
- Consequence modelling from fires and explosions (resultant from spills) to define the effects on surrounding neighbours.
- Occupied Buildings Assessment to API 752
- Full quantitative risk assessment (QRA) of tank farm operations
- Hazard ID and Bowtie studies focussed on high consequence scenario's
- Safety Management System audits



Safety Solutions Ltd are New Zealand's leading Process Safety consultants and trainers. Our engineers and consultants have over 200 years of process safety experience across several industries.

We work with many companies and industries to develop their process safety systems and help close their gaps. Our process safety specialists are considered experts in their respective fields and can provide operating companies with a realistic health status of their process safety systems.

For more information about our services please contact Safety Solutions:

E: [info@safetysolutions.co.nz](mailto:info@safetysolutions.co.nz)  
W: [www.safetysolutions.co.nz](http://www.safetysolutions.co.nz)

## Other services by Safety Solutions:

- Process safety training courses (face to face and e-learning)
- Hazard ID and risk assessment
- Hazardous area classification
- Functional safety
- Safety case Development
- Management system development
- Process safety standards