



AcuTech Credentials

Member of the API 752
Facility Siting Task Force

Lead author of the AIChE
CCPS® Guidelines for
Chemical Transportation
Safety, Security and Risk
Management, 2008

Utilize API RP 752/753
as a guideline for
analyses

Employ AIChE/ CCPS
Guidelines Quantitative
Risk Analysis; Guidelines
for Evaluating Process
Plant Buildings for
External Explosions,
Fires and Toxic Releases;
and Guidelines for
Facility Siting and Layout

Own and operate the
Det Norske Veritas
(DNV) PHAST and SAFETI
software packages.

AcuTech staff have performed Quantitative Risk Assessments (QRAs) and Facility Siting Analyses globally across all aspects of the chemical, petrochemical, offshore and hazardous material transportation operations. Our projects include all aspects of quantitative risk assessment, including:

- Hazard identification (HAZID)
- Accidental release scenario development
- Frequency analysis (Event Tree/ Fault Tree)
- Consequence models for fire, explosion and toxic vapor dispersion
- Cost benefit analysis
- Presentation of risk results (individual risk, societal risk, financial risk, business risk)

AcuTech has conducted a number of Facility Siting Studies in the United States and in many international locations. For these studies, AcuTech utilizes international standards and industry best practices to provide and review spacing requirements for the layout of equipment, buildings and structures for existing facilities and in the design of new facilities.

The QRA and Facility Siting training AcuTech staff has and continues to provide to clients enables them to better understand quantitative techniques, the risks to onsite and offsite personnel, property damage, reputational issues, and justification for additional risk mitigation measures.

AcuTech has conducted siting analyses of onshore LNG terminals following the regulatory requirements of 49 CFR 193, Subpart B and NFPA 59A for the evaluation of vapor dispersion, thermal radiation modeling, and hazard zones for accidental LNG releases. As part of these projects, AcuTech works closely with both the terminal operator and FERC to ensure successful outcomes.

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Recent AcuTech projects

- Facility siting QRA for a facility in Mongolia. This work includes an initial HAZID of all hazardous areas to develop scenarios for review; initial consequence analysis and/or screening with a comparison to company severity criteria (toxic, fire, vapor cloud explosion, and other hazards); detailed QRA of all scenarios and buildings that were not screened-out based on consequence severity; comparison of risk results to company risk criteria and developing recommendations to mitigate/ manage risk, as required.
- Facility siting QRA for a a multi-national chemical company facility in the United States. The QRA is an update to an AcuTech analysis conducted in 2010, with the update including a grassroots chemical process and modifications to existing site operations. Scope of work includes scenario development, consequence modeling, frequency analysis, risk integration, and comparison of results to company risk criteria.
- Business Continuity risk assessment for a chemical plant in the United States. The work is focused on internal and external events that can result in sustained business interruption/ loss of production, but also includes evaluation of impacts to people, property, transportation of hazardous materials, and the environment.
- QRAs for six (6) chemical plants in Thailand. This work was part of a Plant Safety Management Auditing Services project in 2012 – 2013. The QRA scope included training staff on the QRA process; risk valuation for the onsite and offsite personnel, property damage, and business interruption.

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