



AMConsult

Fire Safety Engineering & Risk Management

Trusted to
Deliver Excellence

AMConsult

على مختار للإستشارات الهندسيه
ALI MOKHTAR CONSULTANS

2018

COMPANY PROFILE



OVERVIEW

OPTIMIZE PERFORMANCE,
REDUCE COSTS AND STAY SAFE.

AMConsult is a best-in-class integrated engineering consultancy solutions provider. We are distinct and distinguished in the engineering consultancy services domain.

AMConsult being a multidisciplinary consultant company mainly working in the field of Fire Safety Engineering, Process Safety, Risk Management, and Reliability and Environmental Protection Studies. Our team of consultants with strong technical and industrial background assists industry in improving Safety, Efficiency and Reliability in existing and new projects.

We pride ourselves in providing quality services to both brownfield and greenfield projects during conceptual and front end engineering design stages. AMConsult takes care of full range of HSE studies including but not limited to; HAZID, PHA, HAZOP, SIL, Project Safety Management, Building Risk Assessment, Fire Risk Assessment, QRA and ALARP, SIMOPS, Fire Protection Certification, Fire Audit and Training etc.

As part of owner's program to improve value of the project we deliver Value Improvement studies like Value Engineering, Project Risk Management, Reliability Availability and Maintainability - RAM Study, Energy Optimization, Lesson Learned, Constructability, Design for Maintainability etc.

AMConsult strives to ensure all work is on time, to cost and to quality. We are committed to achieving the highest levels of quality in all our services. We have documented procedures to ensure that the customer's requirement is understood and met or exceed.

With our head office based in strategic location of Eastern Province Dammam, we are serving diverse industries like Oil & Gas, Petrochemicals, Defense, Mining and Transportation.

VISION

To be recognized for excellence in the provision of high quality, cost effective and timely professional services.

To rationalize the costing associated with engineering consultancy by virtue of quality and reduction in fixed cost burden.

To be an internationally respected engineering consultant offering comprehensive solutions.

MISSION

To provide solutions and consultancy on independent safety, environmental and risk management, which fulfils our customer's needs.

CORE VALUES:

Customer satisfaction and loyalty;
Technical excellence with professional ethics;

Market We Serve

We are serving diverse industries like:

- ✓ Energy, Oil & Gas
- ✓ Petrochemicals
- ✓ High Rise Building Review
- ✓ Water Desalination
- ✓ Defence, Infrastructure
- ✓ Workshop Facilitation & Transportation



SERVICES

✓ HAZARD IDENTIFICATION STUDIES

Hazard identification is the first step in managing risk. In this step we answer the question: What can go wrong? To know the things which can go wrong is to be half way down the path of managing them. There is no single ideal individual process of hazard identification. The most appropriate system varies to some extent with the type of industry and process.

The choice of hazard identification technique depends on the purpose for which the study is done. For the identification of hazards and operating problems on a plant, for example, a hazard and operability (HAZOP) study is suitable, while for the identification of sources of release for a hazard assessment it is necessary to carry out a specific review of such sources. Hazard Identification is typically achieved through one or a combination of following studies:



- ✓ Hazard and Operability Study (HAZOP)
- ✓ Safety Integrity Level (SIL)
- ✓ Preliminary Hazard Analysis (PHA)
- ✓ Safety Audits
- ✓ Coarse Hazard Studies
- ✓ What If? Analysis
- ✓ Event Tree and Fault Tree Analysis
- ✓ Failure Modes, Effects and Criticality Analysis
- ✓ Human Error Analysis
- ✓ Operational and Emergency Scenario
- ✓ Development Assessment
- ✓ Process Safety Review



RISK ASSESSMENT & MANAGEMENT

Risk Assessment and Management is achieved through a number of technical safety and risk studies which deal with the problem of understanding the causation, progress and escalation of events which have the potential to cause the harm (to people and environment) and damage (to assets and reputation)



A full risk assessment involves the estimation of the frequency and consequences of a range of hazard scenarios and of individual and societal risk where this is applicable. This is a major undertaking. Our services will allow the client to understand the risks and proactively develop internal measures to eliminate the causes or control the effects effectively. We align with our clients to provide tailored risk management programs that work with their business. We offer the following suite of risk management tools for application in accordance with client's needs:

- ✓ Consequence Assessment
- ✓ Quantitative Risk Assessment
- ✓ Buildings Risk Assessment
- ✓ Escape, Evacuation and Rescue Studies
- ✓ Emergency Systems Survivability Studies
- ✓ Safety Critical System Studies
- ✓ Risk and Scenario Based Emergency Response Planning
- ✓ HSE Case / Impact Assessment development
- ✓ ALARP Study



VALUE IMPROVEMENT PRACTICES

As part of owner's program to improve value, efficiency and reliability of the project we deliver Value Improvement practices. According to IPA research, use of specific VIP has direct impact on the project outcome. AMConsult can facilitate workshops during project FEL stages on below studies that will increase the chances of your project success improving cost and efficiency.

- ✓ Value Engineering
- ✓ Project Risk Management
- ✓ Energy Optimization
- ✓ Reliability, Availability & Maintainability – RAM
- ✓ Design to Maintainability
- ✓ Process Simplification
- ✓ Waste Minimization
- ✓ Constructability Study
- ✓ Lesson Learned Implementation – LLI
- ✓ Lesson Learned Completion – LLC
- ✓ Project Definition Rating Index – PDRI
- ✓ Scope Control (SC) and Change Management (CM)



FIRE SAFETY ENGINEERING

We pride ourselves in providing reliable Fire Safety System design to protect people, assets and environment from destructive effects of fire and gas leak incidents.

At AMConsult we have qualified and industry certified resources to perform detail design works of all known fire protection systems. NFPA and other regulatory standards are being followed for the detail design work of Water and Gas based Fire Protection Systems, Fire Detection and Control Systems and Gas Detection Systems.



FIRE SYSTEM DESIGN REVIEW & CERTIFICATION

A Fire Protection Engineer (PE) is required to review, approve and certify the complete Fire protection & detection Detail Design package of the Design Contractor for Industrial Projects in Saudi Arabia. Review the fire protection & detection system is mainly required, which designed as per NFPA and for Saudi Aramco SAES.

The design review can be at different stages of detail design and the review letter should include as minimum; whether the submitted design meets the applicable SAES and NFPA standards or not. If there are design deficiencies or deviations regarding non-compliance of applicable standards, then this will be clearly stated by the certifying engineer in the letter with referenced clauses from the Standards. The comments and any recommendations during design review stage will be discussed and clarified (if required) in a meeting before incorporating them. After resolving and incorporation all comments, the package will be submitted as 100% package for approval. At **AMConsult** we have the services of Fire Protection Engineers (PE) who can help owners, designers and contractors to review and approve Fire System Design package.



SUPERVISION OF FIRE SAFETY PROJECTS





AMConsult is a best-in-class integrated engineering consultancy solutions provider. We are distinct and distinguished in the engineering consultancy services domain.

“ We provide a range of technical services to support the safety and reliability of high-performance assets and operations. Our safety, reliability and integrity management experts can help you improve project efficiency and enhance decision-making. ”

ACCOMPLISHMENTS - LIST OF PROJECTS

In conjunction with our partner, "**Mohammed Al-Farhan Safety Engineering Consulting Office**" and "**AM Consultants Office**", the following are the list of our projects.

- ✔ Studying and approving of the fire fighting and fire alarm systems drawings for Al Ezdehar Hotel.
- ✔ Designing of the fire fighting and fire alarm systems for the Saudi Investment Bank (14 floors) in King Fahad road.
- ✔ Studying and approving of the fire fighting and fire alarm systems drawings for Al Thumamah Mall
- ✔ Designing of the fire fighting and fire alarm systems for residential and commercial building of Al Rajhi Company in Qassim (10 floors).
- ✔ Studying and approving of the fire fighting and fire alarm systems drawings for some of colleges - Imam Muhammad bin Saud Islamic University.
- ✔ Studying and approving of the fire protection systems drawings for computer rooms in the Ministry of Water and Electricity by using FM200.
- ✔ Studying and approving of the fire fighting and fire alarm systems drawings for Al Olayan Mall and Jarir Bookstore on Khurais Road.
- ✔ Supervision of the fire protection systems for the King Abdullah bin Abdul Aziz project (KAP 1) for the development of security headquarters at the Ministry of Interior.
- ✔ Consultant for the safety and fire protection for a group of medical cities and hospitals affiliated to the Ministry of Health.
- ✔ Supervision of the fire protection systems for the King Abdullah bin Abdul Aziz project (KAP 2A) of the Ministry of the Interior (Compound - a group of educational colleges).
- ✔ Studying and approving of the fire protection systems drawings in ABB.

And with **Safety Innovations Company** and **AM Consultants Office**, the following are the list of projects

- ✔ Royal Commission of Jubail
- ✔ Shatea Mall
- ✔ Darren Mall
- ✔ Amwaj Mall
- ✔ AlOthaim Mall
- ✔ Landmark Arabia
- ✔ Saudi Arabian Elevators
- ✔ Ramada Hoteliers
- ✔ Blue Gulf International School
- ✔ Haram Plaza
- ✔ Dammam Development (Dammam AlTamer)
- ✔ Howard Johnson Hotel
- ✔ Leilina Restaurant
- ✔ Dunkin Donuts
- ✔ Chamber of Commerce
- ✔ Arabia Oud
- ✔ Dayah Mall
- ✔ Ibrahim AlJuffali
- ✔ Khurayef Petroleum
- ✔ Mazaia Store
- ✔ Eddy Store
- ✔ Al Rashed Building Materials
- ✔ Al Esraq School
- ✔ Al Noukbah School
- ✔ Chuck and Cheese
- ✔ Gerab National Enterprise
- ✔ Abdullah Hashim
- ✔ Al Babtain Company
- ✔ Al Nasser Sports Center

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