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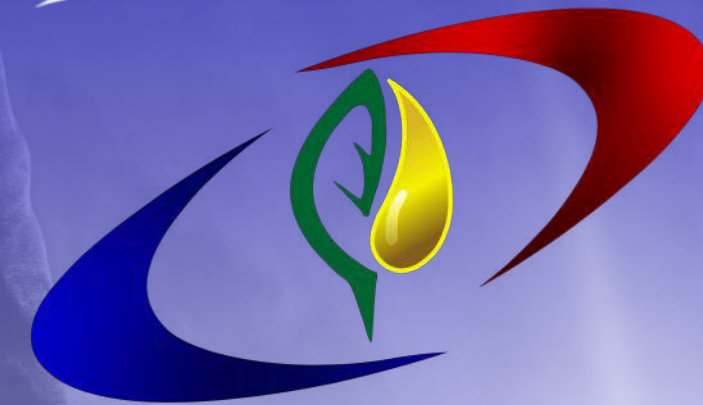
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ENERGY
FOR THE
FUTURE



NRCtech
Benchmark for Safety



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Who We Are

- Specialist EPCM Company committed to provide simple engineering solutions to complex demands of the industry today.
- Using the latest tools and techniques, the company supports its clients in the development of energy, chemicals, metals and infrastructure projects through various life cycle phases.
- Spread over strategic locations across the globe, the technical experts of **NRGtech** ensure complete customer satisfaction by means of timely delivery of projects at reasonable cost and uncompromising quality standards.

NRGtech Business Sectors

- Oil & Gas
- Process Industries
- Metals & Mining
- Alternative Fuels
- Power Generation - Conventional and Non-Conventional

NRGTECH EXPERTISE

- Engineering
- Project Management
- Procurement Management
- Construction
- Risk & Reliability
- Health, Safety, Security & Environment
- Safety & Energy Audits
- Authority Approval
- Training & Certification

OUR SERVICES

Health,
Security and
Environment

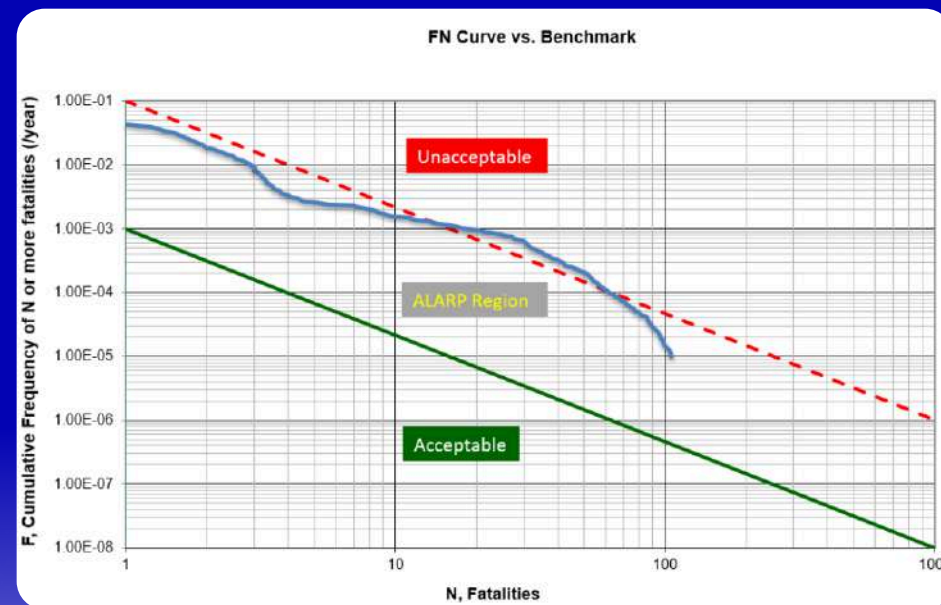
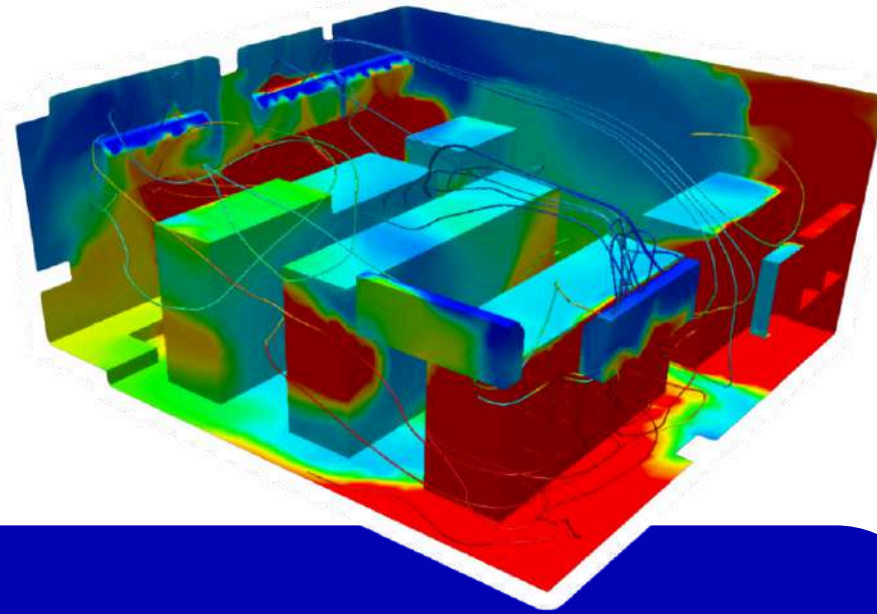
DETAIL
ENGRG.

Process
Safety
Services

EPCM
SERVICES

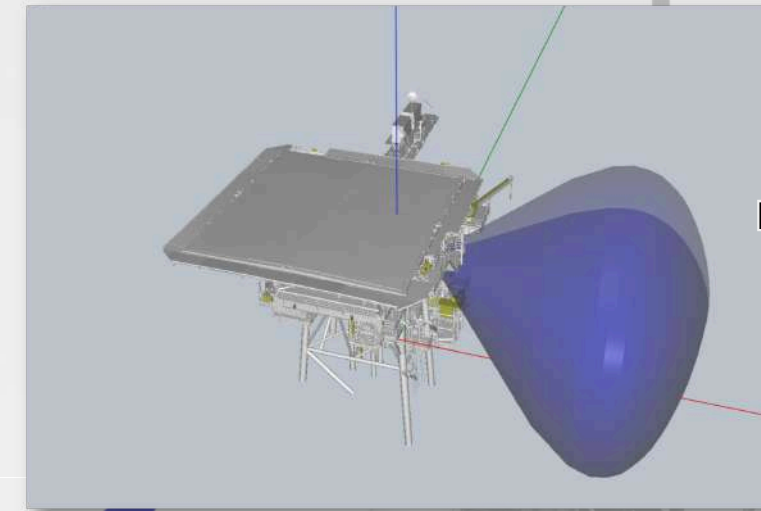
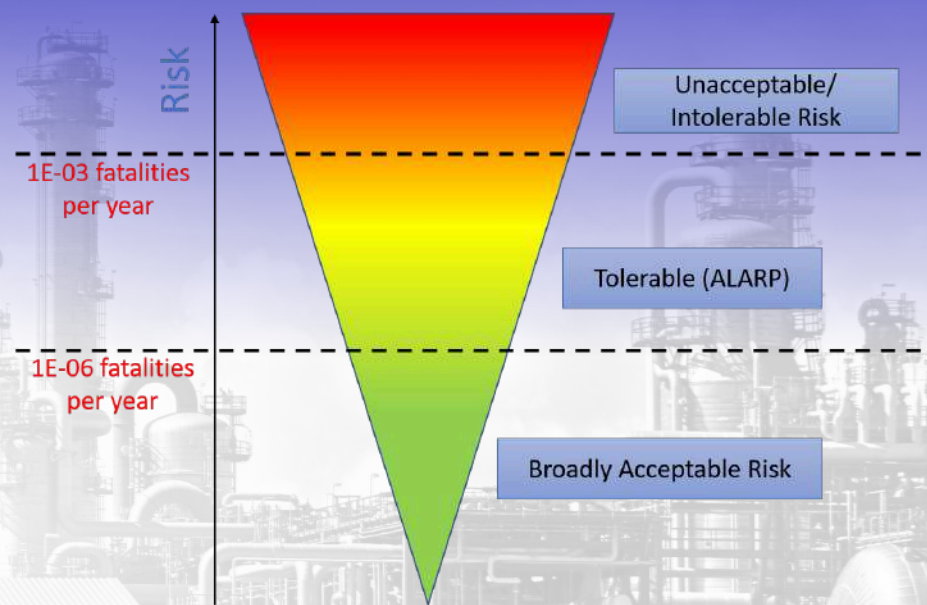
- ✓ Certification & Approval
- ✓ Auditing & Inspection Services
- ✓ Training

Process Safety Services



Process Hazard Assessments - HAZID, ENVID, OHID, What-if, HAZOP, SIL Classification and Verification by TUV & CFSE certified personnel.

Quantitative Risk Assessments - Consequence Modelling, Flare/Vent Studies, FERA, QRA, CBA, ALARP Demonstration, Bow-Tie Analysis, HSEIA, COMAH.



Loss prevention - Fire protection system design, 3D F&G Detector Mapping, Hydraulic Simulations.

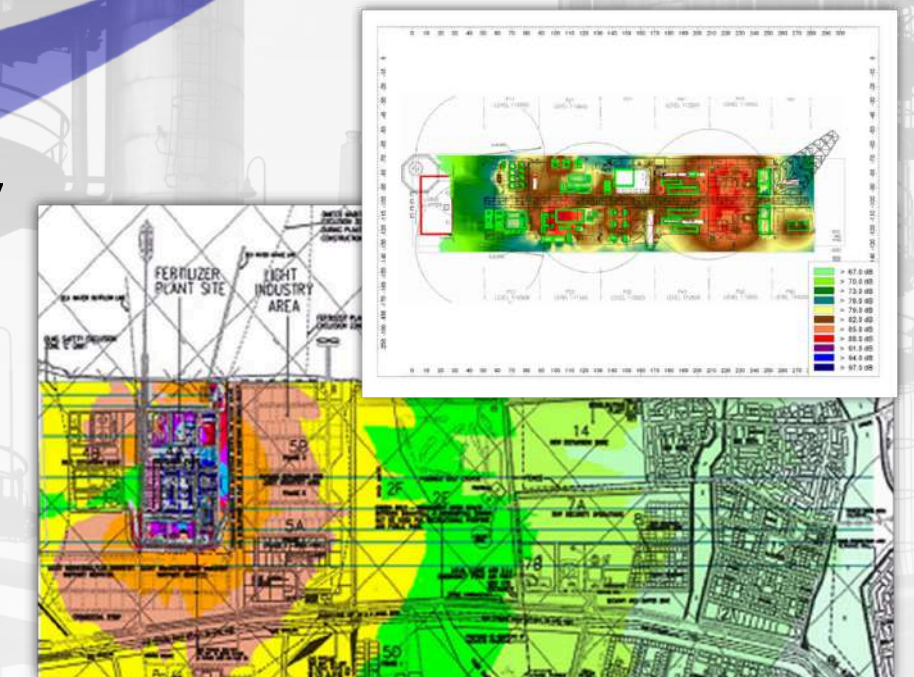
Reliability & Special Studies - FMEA, RAM, EERA, ESSA, TRIA, Dropped/Swing Object Study, Boat Impact Study, Bridge Length Optimization, SCEPS, 3D Model Review, Constructability Review, Human Factor Study.

Health, Security & Environment

Health - Occupational Health Hazard Identification (OHID), Health Risk Assessment, Ergonomic Study, Health Impact Assessment

Security - Security Contingency Plan

Environment - Best Available Technology (BAT) Selection and Justification, Environmental Issues Identification (ENVID), Environmental Baseline Survey, EIA, Noise Measurement, Noise Specification and Noise Studies, Greenhouse Gas Emission Study, Hazardous Waste Disposal Study, Environmental Waste Discharge Report and Management Plan, Spill Management Plan.



DETAIL ENGINEERING

Process. Process/Flare network Simulations, Pipeline Hydraulic and Surge Analysis, P&ID PFD Development, SAFE Charts

Mechanical. Detailed design of Pressure Vessels, Columns, Heat Exchangers and Tanks, Sizing / Selection of Pumps, Compressors, and Turbines, Revamp Studies for Rotating / Static Equipment, HVAC System Design.

Piping. Overall Plot Plan / Equipment Layout, Piping GA & Isometrics, Pipe Stress Analysis, Pipe Supports Design, 3D PDMS Modeling, Material Selection Studies.

Instrumentation. Design of DCS, ESD, F&G, HIPPS, Telecom systems, Design of Online Gas Chromatographs and Analyzer houses, Instruments Control and Shutdown Philosophy, Narratives, Cause and Effect Matrix/Interlock Logic Diagrams, Field Instruments Specifications and Data Sheets.

Electrical. HV & LV Power generation, substations and distribution Systems, Lighting and Small Power Systems, Earthing and Lightning Protection Systems, Power Management and Load Shedding System, Marine Navigation Aid System, Electric Heat Tracing System, Cathodic Protection System, Power System Study of Load flow, Short circuit, Motor starting, Transient Stability, Harmonics and Relay Coordination Study.



Auditing and Inspection Services

Technical Safety Audit, PSM Audit, Accident Investigation, Energy Optimization Audit, Inspection of shop and site fabricated items.



EPCM SERVICES

Inherently Safety Design (ISD) features ensured in all phases of design & engineering-concept, Basic, Front End and Detailed Design for Oil & Gas.

Component specialists, inspectors and expeditors provide procurement assistance services-Enquiry, Bid Evaluation, Purchase Order, Vendor Document Review, Inspection, Testing, Expediting and Delivery.

Project Management - Experience team, skilled in managing projects in challenging environments.

Construction Management - Highly experienced project managers who can communicate in local language.

3D Modelling - All latest plant 3D model tools used for building plant models for generating MTO, clash check, human factor analysis, extracting 2D layouts, constructability review etc.

Certification and Approval

Compliance to local regulations and authorities' approval assistance services.



Training

Commercial structured training programs for executives & tailor made programs suiting facility Owners' requirements for all levels of staff (in local languages where necessary)

Our Clients

