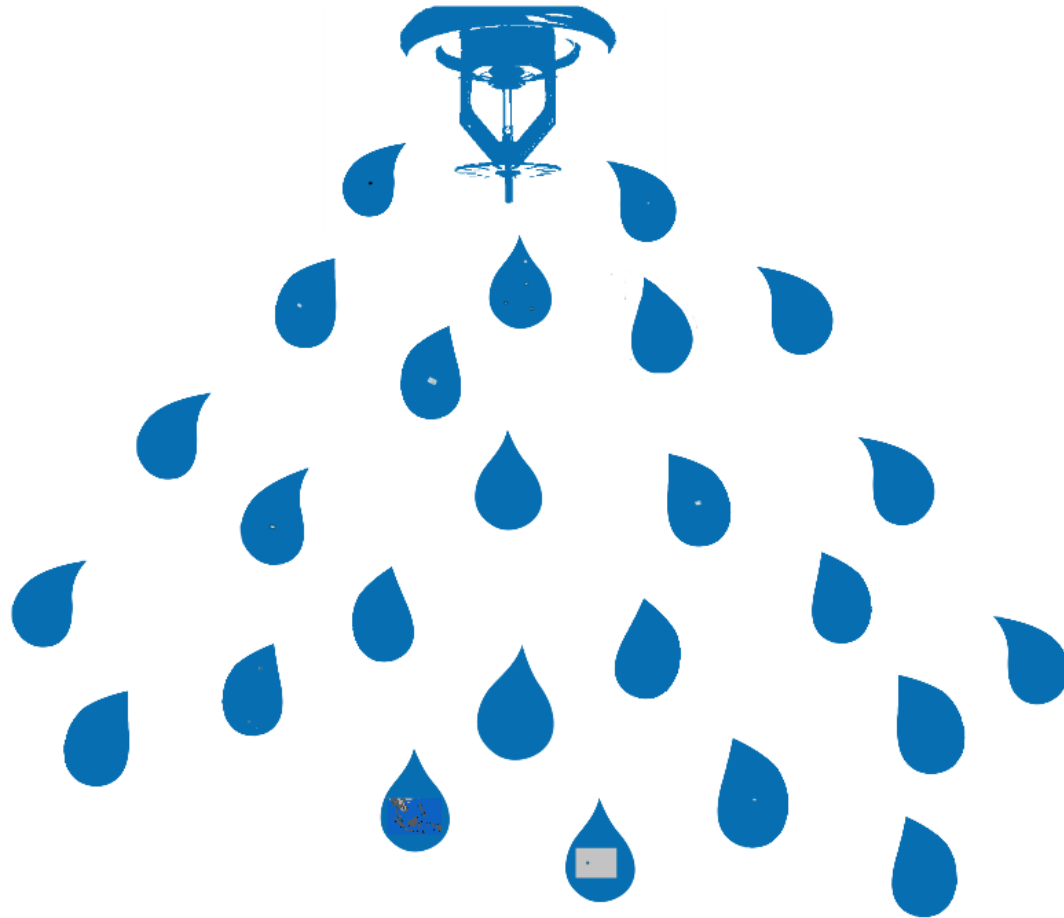




**United Technologies Corporation Fire &
Security: Field Operations (B)**
TheCaseSolutions.com



**United Technologies Corporation Fire &
Security: Field Operations (B)**
TheCaseSolutions.com

Formed in 1983, Deluge is a major designing, engineering, supplying, installation, testing & commissioning and maintenance contractor of **fire protection services**. We have the ability to deliver end to end projects in the following sectors:

COMMERCIAL

- > Offices
- > Hotels
- > Shopping centers
- > Public entertainment centers
- > Aviation
- > Transportation - MRT

RESIDENTIAL

- > Apartments
- > Condominiums

INSTITUTIONAL

- > Public buildings
- > Schools
- > Learning institutions
- > Airports

TheCaseSolutions.com

INDUSTRIAL

- > pharmaceutical
- > process industry
- > semi-conductor
- > warehousing
- > logistics centers

OFFSHORE & MARINE

- > Jack-up rig
- > Semi-submersibles
- > FSO & FPSO
- > Harbors

PPOG

- > Power Plants
- > Petrochemical
- > Oil
- > Gas

Daring to be creative. Passionate about our work. Thinking out reliable solutions. Focused on success. These qualities have defined Deluge for over **30 years**, and deliver results to you today.

DESIGN & ENGINEERING

SOLUTIONS & SYSTEM INTEGRATION

Deluge offers a complete range of fire detection systems and suppression systems for all types of fire risks to meet the business and protection needs of our clients.

1. FIRE DETECTION SYSTEMS

- Conventional Fire Alarm System
- Addressable Fire Alarm System
- Aspirating Smoke Detection System
- Video Smoke Detection System
- Fire & Gas Detection Systems
- UV/IR Detection Systems
- Voice Communication Systems
- Linear Heat Detection Systems

2. FIRE SUPPRESSION SYSTEMS

Water

- Automatic Sprinkler System
 - Wet Pipe System
 - Dry Pipe System
 - Deluge System
 - Pre-Action Sprinkler System

- Water Mist System
- Dry/Wet Riser System
- Hose Reel System
- Hydrant System
- Water Monitor
- Fire Pumps
- Extinguishers Class A

Gas

- FM200 System
- CO2 System
- Inergen System
- Novec 1230 System
- CO2 Extinguishers Class C

Foam

- Deluge System
- Closed Head Sprinkler System
- Foam Chambers, Pourers and Monitors
- Foam Skids
- Bladder Tanks & Pump Skids

Dry Chemical

- Dry Chemical Skids
- Dry Chemical Monitor
- Extinguishers Class B

TheCaseSolutions.com

deluge TheCaseSolutions.com

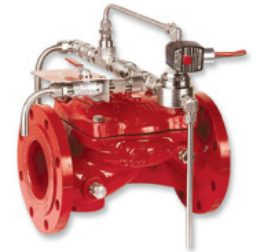
Product and services - Basic Fire Protection needs



Detection and Alarm Systems

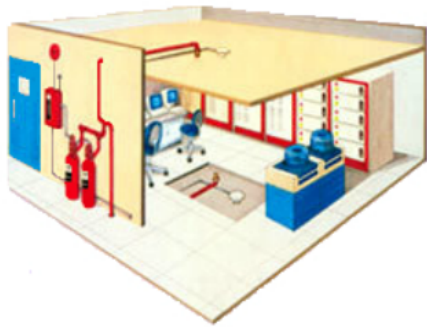


Basic fire suppression



deluge

Product and services - Higher Value add



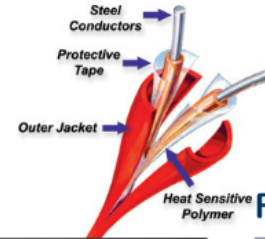
Inert Gas Suppression Systems



Deluge Spray Systems



Detection and Alarm Systems



Foam Application Systems



Water Mist Systems



deluge TheCaseSolutions.com

Product and services - Higher Value add

service to the FPSO, LNG , Marine and Offshore Industries

Helideck Crash Kit
Deluge System
Spray Nozzles
Helideck Foam System
Gas Suppression System
Flare Snuffing System
Sprinkler System
CO2/Inergen System
Deck Foam System
Safety Equipment

Helideck Foam System
Air Release Valve
Flare Snuffing System
FM200 System
Deluge System
Sprinkler System

Pre-fabricated Skids

DESIGN & ENGINEERING

LEADER IN THE FIELD OF DESIGN

- Active participation with Review Boards of several Fire and Safety professional bodies.
- DFP's design staff are experienced in the design and modification of fire protection systems to the standard of international EPC contractors.
- We are using Primavera planning, sprinkler design software and 'FHC', 'Hyena' and 'pipenet' software for our hydraulic calculation.
- Building Information Model (BIM) Readiness
- Experience and knowledge in both local and international fire codes.

TheCaseSolutions.com



DESIGN & ENGINEERING

TheCaseSolutions.com

Compliance to **Local and International** Fire Codes & Standards

REGULAR CODES AND STANDARDS

- MS (Malaysian Standard)
- SIRIM (Quality and Technology Innovation, MY)
- NFPA (National Fire Protection Association, US)
- FM (Factory Mutual, US)
- UL (United Listed, US)
- LPCB (Approval Mark for Passive Fire Protection Installation, UK)
- EN (European Norm)
- VdS (Vertrauen durch Sicherheit, EU)
- PSB (Laboratory scale fire testing, SG)
- BCA (Building and Construction Authority, SG)
- CP (Codes of Practice, SG)



MARITIME AND OFFSHORE CODES AND STANDARDS

- SOLAS (International Convention for the Safety of Life at Sea)
- ABS (Setting Standards of Excellence in Marine and Offshore Classification)
- DNV (Managing risks in the maritime industry)
- United States Coast Guard Auxiliary
- Lloyds register (development of new technologies and standards)
- Bureau Veritas (Testing, Inspection and Certification services)



BizSAFE STAR

ISO 9001:2008

OHSAS 18001:2007

ISO 14001:2004