

 <b>SAFETY CONSULTANTS &amp; SOLUTION PROVIDERS</b>	<b>SERVICE MANUAL</b>				
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1. ADVISORY, CONSULTANCY AND ENGINEERING - FIRE & SECURITY SYSTEMS

1.1. FIRE STRATEGY ADVISORY, CONSULTANCY AND ENGINEERING

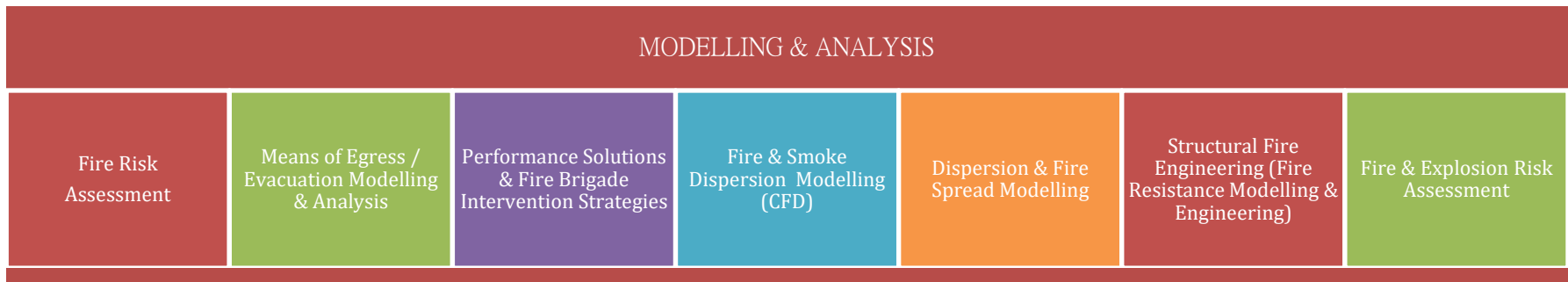
1.1.1. REGULATORY & COMPLIANCE


SCSP fire engineers have an excellent reputation for integrity and providing the highest level of care and expertise on all our projects.



1.1.2 ASSESSMENT & ANALYSIS

Our fire engineers have an excellent reputation for integrity and providing the highest level of care and expertise on all our projects, no matter the size or 1



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### 1.1.3 ENGINEERING, DESIGN & SPECIFICATION SERVICES


#### 1.1.3.1 CONCEPT, PHILOSOPHIES & ENGINEERING DESIGN SERVICES

SCSP fire engineers have an excellent reputation for integrity and providing the highest level of care and expertise on all our projects.



#### 1.1.3.2 PASSIVE FIRE SYSTEMS




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### 1.1.3.3 ACTIVE SYSTEM DESIGN SERVICES

WATER BASED SUPPRESSION SYSTEM			
Water Deluge, Pre-Action, Wet and Dry Sprinklers, Hydrant, Fire Hose Reel, Landing Valve, Standpipe, and Hose Systems	Foam System High & Low Expansion System,	Spray Nozzle, Fire Monitor, Foam Generator, Foam Pourer, and Water Mist Fire	Fire Truck and Mobile Foam Equipment Specification, Audit and Certification)

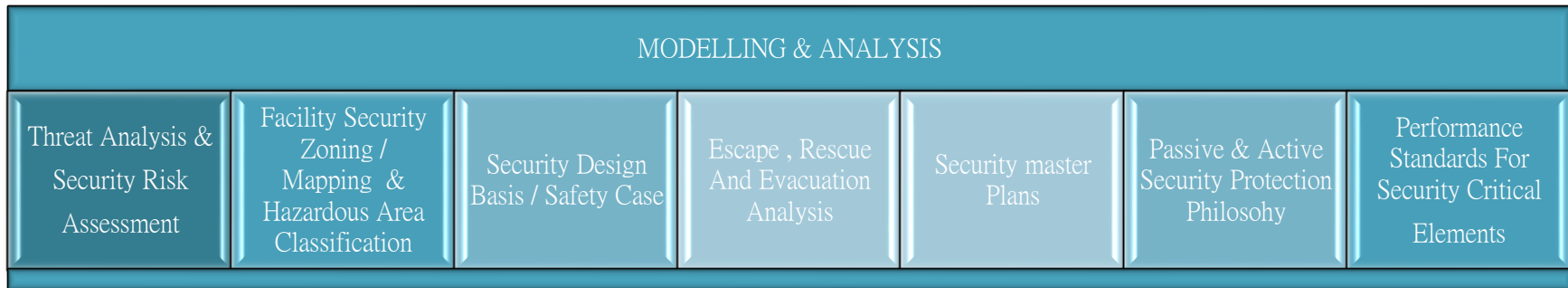
GAS SUPPRESSION SYSTEM			
Clean Agent Systems HFC 227 EA, NOVEC, CO2,	Aerosol Systems	Kitchen Fire Solutions	Inergen, Argonite,

FIRE AND GAS DETECTION SYSTEMS			
Gas Dispersion Modelling	Fire & Gas System Gas Leak & Control System	Addressable & Conventional Fire Detection & Alarm Aspirating Smoke System	Inergen, Argonite,

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1.2. SECURITY SYSTEMS ADVISORY, CONSULTANCY AND ENGINEERING

1.2.1 SECURITY CONCEPT, PHILOSOPHIES & ANALYSIS



1.2.2 ENGINEERING DESIGN & AUDIT SERVICES




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### 1.3 BUILDING MANAGEMENT SYSTEMS ADVISORY, CONSULTANCY AND ENGINEERING

#### 1.3.1 CONCEPT, PHILOSOPHIES & ENGINEERING DESIGN SERVICES

SCSP fire engineers have an excellent reputation for integrity and providing the highest level of care and expertise on all our projects.

CONCEPTS, ENGINEERING & DESIGN						
System Logic Architect & Systems Control Logic	Voice and Data Communication Systems Advisory & Engineering	Audio-Visual Communication Systems Advisory & Engineering	Emergency Power Backup Systems Advisory & Engineering	Emergency Lighting Systems Advisory & Engineering.	Building Management Systems Engineering Design	BMS System Audit

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## 2. PROCESS AND TECHNICAL SAFETY ADVISORY, CONSULTANCY AND ENGINEERING

Safety Consultants & Solution Providers renders Process and Technical Safety services within the following scopes:

### 2.1 ENGINEERING SAFETY STUDIES

Our Engineering Safety Factors, Circulation, Environmental, and Process Safety (OPERATIONAL) covers:


FIRE AND GAS DETECTION SYSTEMS				
Engineering Design & Review and Facilitation	Constructability Studies	Functional Safety Studies - Safety of the Intended Functionality (SOTIF,)	Reliability, Availability, and Maintainability Studies (RAMs).	Responsibility-Sensitive Safety model (RSS)

### 2.2 RISK ASSESSMENTS

Fire, Thermal, Explosion and Chemical Risk Assessments; Process Hazard Analysis.

RISK ASSESSMENT						
Fire Risk Assessment (FRA) & Fire and Explosion Risk Analysis (FERA)	Thermal Risk Assessment (TRA) & Differential Scanning Calorimetry (DSC)	Hazard Identification (HAZID) & Hazard Analysis (HAZAN)	Safety Analysis (SAFAN) Operator Task Analysis	Health Risk Assessment (HRA)	Quantitative Risk Assessments (QRA) Risk Assessment Matrix (RAM), and Hazard Analysis, Critical Control Point (HACCP)	Quantitative Risk Assessments (QRA) Probability Distribution, Decision Tree, Three Point




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### 2.3 PROCESS HAZARD ANALYSIS

PROCESS HAZARD ANALYSIS							
HAZOP Hazard & Operability Studies	SIL & Layer of Protection Analysis (LOPA)	Failure Mode and Effects Analysis (FMEA)	Safety Integrity Level (SIL )	Safety and Operability (SAFOP) Studies	System Operability (SYSOP) Studies	Fire & Explosion Risk Assessment	Demonstration of ALARP using either Risk Aversion Method or CBA.

PROCESS HAZARD ANALYSIS							
Bow-Tie Analysis	Human factor Engineering (HFE)	Root Cause Analysis (Fault Tree Analysis, FTA, What If, Event Tree (ETA), Five Whys & Fish Bone	Escape , Rescue And Evacuation Analysis (EERA)	Simultaneous Operations (SIMOPs) Studies	Flare Radiation and Dispersion Studies	Identification of Safety Critical Elements (SCE)	Performance Standards For Security Critical Elements

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3.0 HEALTH, SAFETY AND ENVIRONMENT MANAGEMENT SYSTEMS SAFETY ADVISORY, CONSULTANCY & IMPLEMENTATION  
 Environmental Management Systems (EMS) Audit & Occupational Health and Safety Management Systems (OSHMS) Audit


3.1. CONSULTANCY AND IMPLEMENTATION

CONSULTANCY & IMPLEMENTATION						
Development & Implementation HSE-MS frameworks	Health, Safety & Environmental Master Plans	Health Risk Assessments	Safety Audits	Quantitative risk assessment	Project Specific Occupational Health Risk Management	Manpower Supply - HSE Expert

CONSULTANCY & IMPLEMENTATION						
Disaster Risk management	Transportation Safety Management	Marine Safety	Aviation safety	COSHH Confined Space Rope Access Ergonomics	HSE Training & Conferencing	Expert Witness in Occupational Health & Safety

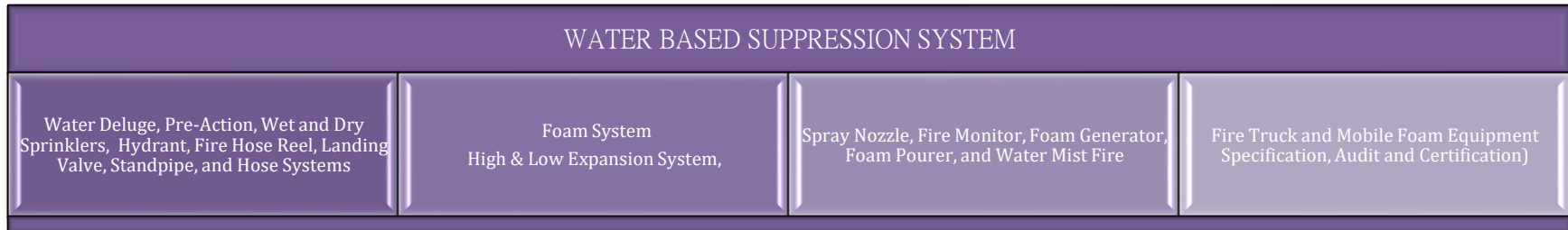
3.2. ENVIRONMENTAL SAFETY

CONSULTANCY & IMPLEMENTATION						
Environmental Impact Assessment	Environmental Monitoring (Air Quality Assessment and Sound Level Monitoring).	Environmental Monitoring Systems Advisory and Engineering	Environmental Auditing	Development of Environmental Management Frameworks	Safety Equipment and Personal Protection Equipment Specification	Expert Witness in Occupational Health & Safety

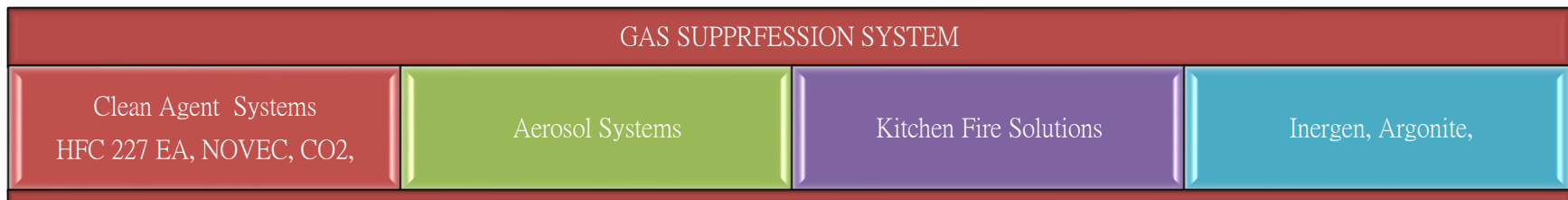
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#### 4.0 ACTIVE FIRE SAFETY SYSTEM CONSTRUCTION IMPLEMENTATION & PROJECT MANAGEMENT

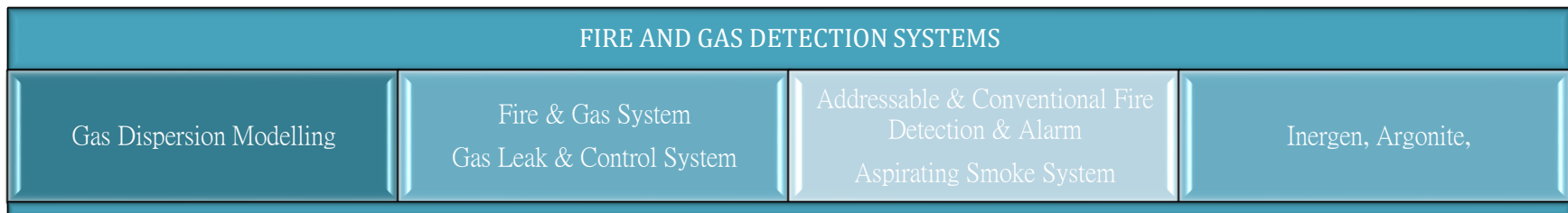
##### 4.1. WATER-FOAM BASED FIRE SUPPRESSION SYSTEMS INSTALLATION




##### 4.2. GASEOUS FIRE EXTINGUISHING SYSTEMS INSTALLATION



##### 4.3. FIRE AND GAS DETECTION SYSTEMS INSTALLATION



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## 5.0 SECURITY & BUILDING MANAGEMENT SYSTEMS CONSTRUCTION

SCSP is a leader in security systems, building management systems (BMS), and extra low voltage services for managing security and safety implemented

### 5.1. SECURITY SYSTEMS INSTALLATION


#### SECURITY SYSTEMS INSTALLATION

Surveillance Camera (CCTV) Security	Intrusion Alarm (PIR, UV, Audio Visual Door Station, Mobile Tracking, Security Alarm System)	BIOMETRIC & SECURITY SCREENING Fingerprint Access Control, Eye Retina Access Control, Voice recognition Door Access Control, Facial Recognition Access Control, Fingerprint Scanners Screening, and Temperature Sensors.)	Visitor Management and Crowd Control Visitor Booking, Host Notification, Parking Access, Body Temperature Scanner, Dot Matrix Display Board, and Crowd Control Barriers.	ACCESS CONTROL Bollards, Gates, Boom Lifts, Security Doors, Turnstiles, Access Control Door Station, Radio-frequency Identification (RFID) Magnetic Door Locks, Image Scanner for Passenger, and Card Readers
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### 5.2. BUILDING MANAGEMENT SYSTEMS INSTALLATION


#### BUILSING MANAGEMNT SYSTEMS

Integration of Network Systems for Building Services	Installation of Building Management Systems Equipment	Integration of Building Services to Building Management Systems.
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### 5.3. COMMUNICATION SYSTEMS INSTALLATION

COMMUNICATION SYSTEMS			
Installation and Integration of Public Address Systems (PAS) / Speaker	Installation and Integration of Telephony (Intercom, GSM, and PABX).	Installation and Installation of Audio-Visual Systems (Video, Television, and Satellite).	Installation and Installation of Emergency / Two-Way Emergency Communication Systems

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6.0 SAFETY & SECURITY EQUIPMENT PRODUCTS SALES

6.1. FIRE PROTECTION SYSTEMS SALES


FIRE EQUIPMENT SALES			
<u>WATER &amp; FOAM SYSTEM EQUIPMENT</u> Deluge, Pre-Action, Wet and Dry Sprinkler Spray Nozzle, Fire Monitor, Hydrant, Fire Hose Reel, and Landing Valve Standpipe, and Hose Fire Foam Generator, Foam Pourer, and Water Mist	<u>FIRE AND GAS DETECTION SYSTEMS SALES</u> - F&G, FAD Systems Beam & Flame Detection System. - Aspirating Smoke / Fire Detection Systems	<u>FIREFIGHTING EQUIPMENT SALES</u> - Fire Trucks. - Mobile Firefighting Equipment. - Fire Extinguishers. - Fire and Emergency Rescue Vehicles. - Fireman Equipment.	<u>EXTINGUISHERS &amp; SIGNAGES</u> Signage & Portable Extinguisher Sales

6.2 SAFETY EQUIPMENT SALES

Safety Equipment Sales			
First Aid Equipment & Personal Protective Equipment	Marine Equipment Supply & Aviation Safety Equipment	Emergency Reponse & Road Transportation Equipment	Health & Safety Fighting Signage

6.3 SECURITY EQUIPMENT SALES

SECURITY EQUIPMENT SALES				
Surveillance Camera Systems	Intrusion Alarm Systems	Visitor Management and Crowd Control	Access Control Systems	Biometric and Security Screening Systems


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#### 6.4 BMS EQUIPMENT SALES

<b>BMS EQUIPMENT SALES</b>	
Network Equipment Sales	Building Management Equipment Sales

#### 6.5 COMMUNICATION EQUIPMENT SALES

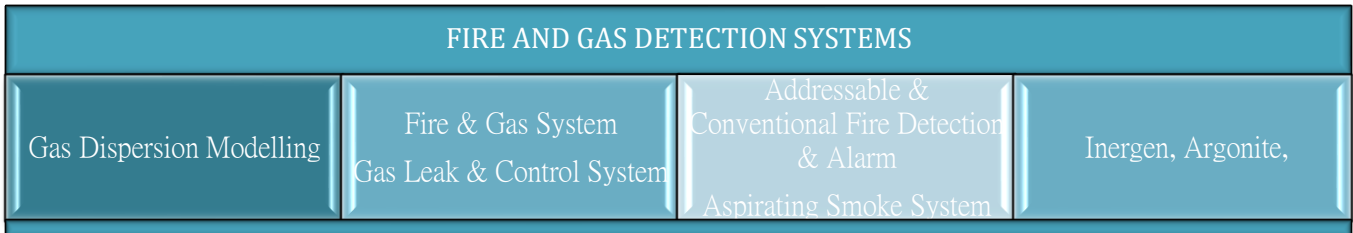
<b>C OMMUNICATION EQUIPMENT SALES</b>			
Public Address Systems (PAS) / Speaker	Telephony (Intercom, GSM, and PABX)	Audio-Visual Systems (Video, Television, and Satellite)	Emergency / Two-Way Emergency Communication Systems

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7.0 SAFETY & SECURITY SYSTEMS MAINTENANCE AND SERVICE LEVEL AGREEMENTS

Test, Corrective Maintenance, and Planned Preventive

7.1. FIRE PROTECTION SYSTEMS MAINTENANCE AND SERVICE LEVEL AGREEMENTS





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## 7.2. SECURITY SYSTEMS MAINTENANCE AND SERVICE LEVEL AGREEMENTS

SECURITY SYSTEMS INSTALLATION				
BIOMETRIC & SECURITY SCREENING			ACCESS CONTROL	
Surveillance Camera (CCTV) Security	Intrusion Alarm (PIR, UV, Audio Visual Door Station, Mobile Tracking, Security Alarm System)	Fingerprint Access Control, Eye Retina Access Control, Voice recognition Door Access Control, Facial Recognition Access Control, Fingerprint Scanners Screening &	Visitor Management and Crowd Control Visitor Booking, Host Notification, Parking Access, Body Temperature Scanner, Dot Matrix Display Board, and Crowd Control Barriers.	Bollards, Gates, Boom Lifts, Security Doors, Turnstiles, Access Control Door Station, Radio-frequency Identification (RFID) Magnetic Door Locks, Image Scanner for Passenger, and Card

## 7.3 BUILDING MANAGEMENT SYSTEMS MAINTENANCE AND SERVICE LEVEL AGREEMENTS

BUILDING MANAGEMNT SYSTEMS		
Integration of Network Systems for Building Services	Installation of Building Management Systems Equipment	Integration of Building Services to Building Management Systems.

## 7.4 COMMUNICATION SYSTEMS MAINTENANCE AND SERVICE LEVEL AGREEMENTS

COMMUNICATION SYSTEMS			
Installation and Integration of Public Address Systems (PAS) / Speaker	Installation and Integration of Telephony (Intercom, GSM, and PABX).	Installation and Installation of Audio-Visual Systems (Video, Television, and Satellite).	Installation and Installation of Emergency / Two-Way Emergency Communication Systems