Safety & Fire Protection Systems
Message from the CEO

IRP Fire & Safety Limited is a member of the IRP Group of companies. Incorporated in 1974 we have served the Trinidad and Tobago market with distinction and integrity for over 40 years. We are the leading supplier of Fire, Safety, Marine and Environmental products to many local and regional industries. We have established comprehensive relationships with our clients by learning their environments, challenges and goals, to offer tangible solutions. We continue to manage our business around the evolving needs of our clients, allowing us to be at the vanguard of change and deliver value.

Our staff are committed to delivering the highest quality products, while providing supreme service to our valued customers. As we move forward, we continue to assess our customer’s needs and work assiduously to provide the best safety solutions.

Warmest Regards,
David Thompson
CEO IRP Fire & Safety Ltd.

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Engineering & Projects Department

The Engineering & Projects Department at IRP Fire & Safety Ltd. comprises of a dedicated team of professionals responsible for design, programming, installation and commissioning of Safety and Fire Protection Systems. Our Team consists of Qualified Engineers, Project, CAD & Control Technicians, Project Managers and Administrative Staff who are all dedicated to System Design and Implementation.

We do business through “preferred supplier partnerships” and the use of certified engineering tools and software. Our technical team is able to provide high quality safety and fire systems meeting international codes and standards in relation to the Petroleum, Oil, Gas and Downstream Industries.
FIRE & GAS DETECTION SYSTEMS

MSA and General Monitors have been protecting people and facilities for over 150 years of combined experience in gas and flame detection. MSA and General Monitors have united to lead the way in providing the most innovative gas and flame detection solutions to protect lives and make facilities safer around the world. Together they bring you an unrivalled range of gas detectors and flame detectors. They don’t just make sensors, they invent sensing technology.

With quality products and excellent support from MSA, IRP continues to be successful in providing Fire & Gas Detection and Monitoring solutions for various applications in the Oil, Gas and Petrochemical Industries. Our factory trained Engineers & Technicians have designed, installed and commissioned many systems in the Ammonia, Methanol, Petroleum and Gas Facilities throughout the region including offshore installations. IRP continues to provide detection solutions for combustible and toxic gases which include ammonia, methanol, sulfur dioxide, hydrogen sulfide, carbon dioxide, carbon monoxide, oxygen, etc. We have also offered many flame detection solutions for Process Facilities, Tank Farms and refills depots. The Commercial Market and Manufacturing Industry are no stranger to IRP. We can offer gas detection solutions for the natural gas and LPG feed systems typically used to fuel HVAC, Generators, Processing Equipment and Restaurant Cooking appliances.

IRP Fire & Safety Ltd is a Certified System Integrator for Rockwell Allen Bradley. Our Engineers, Programmers and Technicians provide integrated systems which connect the fire & gas detectors, notification devices and Human Machine Interface Panel all together as a complete turnkey system. Integration abilities allow for easy interface to 3rd party systems such as DCS & ESD Systems, HVAC Controllers and remote monitoring stations.
Ultima X Series Gas Monitors

Designed to provide thorough, continuous monitoring of many hazardous gases, the indoor/outdoor Ultima X Series Gas Monitors offer excellent performance and MSA quality craftsmanship. DuraSource™ Technology offers extended sensor life, while HART provides convenient setup, calibration and diagnostics. HART also allows for existing component install and wiring to be used. A single circuit board increases reliability, while our patented sensor disconnect-under power feature allows all sensors to be replaced in hazardous areas without area declassification. The units are crafted from either stainless steel or polycarbonate, and the interchangeable smart sensors eliminate the need for reconfiguration. Our scrolling LCD screen display sensor reading and gas type, while the calibration process includes date stamping and the ability to calibrate locally or remotely.

FL4000H Multi-spectrum IR Flame Detector

The FL4000H is an advanced multi-spectrum infrared (MSIR) flame detector that provides superior false alarm immunity with the widest field of view. The FL4000H employs a multi-spectral optical IR sensing array with a sophisticated Neural Network Technology (NNT) system to reliably discriminate between actual flames and the vast majority of false alarm sources. The FL4000H detects typical fires such as alcohol, n-heptane, gasoline, jet fuels and hydrocarbons. It can also see through dense smoke produced by diesel, rubber, plastics and lube oil fires.
IR5500 Open Path Infrared Gas Detector

The IR5500 is an open path infrared (IR) gas detector that continuously monitors for flammable gas leaks over large open areas. It monitors in both the LEL-m and ppm-m ranges to detect both small and large leaks. The IR5500 offers the benefits of early detection with its high sensitivity to gas concentrations at the ppm levels. This feature allows it to alarm faster than an LEL-only detector. Digital display and adjustable mounting arms ensure easy alignment. Factory calibrated for low-maintenance operation.
Fike FASST

Fike’s FASST is a very early warning fire detection featuring the latest in Fire Alarm Aspiration Sensing Technology. Compatible and complementary to each of Fike’s fire alarm and fire suppression systems, this technology uses an advanced, intelligent smoke detector that actively draws air into its sensor through a pipe network. FASST combines dual source blue LED and infrared laser optical smoke detection with advanced algorithms to detect a wide range of fires while maintaining enhanced immunity to nuisance particulates and enabling FASST to deliver highly accurate and discreet early warning fire detection for a wide variety of environments / applications.
Signifire Cameras (CCTV)

SigniFire Video Flame, Smoke and Intrusion Detection System

SigniFire is a turnkey video smoke detection solution. The state-of-the-art, camera-based Signifire video smoke detection system, visually detects the presence of flame or smoke at its source, independent of airflow in the area. Signifire represents a critical advantage for early warning fire detection, especially for challenging environments and open area venues.

Signifire IPSmoke Detection Camera

The Signifire IPCamera combines the enhanced resolution and picture clarity of a standard network camera with built-in flame, smoke and motion detector capabilities. The FM-approved technology detects:

- Presence of flames within the field of view of the camera
- Reflected fire light when flames are obstructed
- Presence of puffing smoke clouds and ambient smoke
- Unauthorized Intrusion

Fire-Lite® Alarms by Honeywell

Smart Wireless Integrated Fire Technology (SWIFT) Detectors & Modules provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless detectors create an opportunity for applications where it is costly (concrete walls/ceilings, buried wires), obstructive (surface mount conduit), or possibly dangerous (asbestos) to use traditional wired devices. In addition, both wired and wireless devices can be present on the same FACP providing an integrated wired-wireless solution for increased installation potential.

High Performance with Remarkable Flexibility

The panel supports a wide range of addressable sensors, control outputs, and notification devices capable of meeting the most challenging design specifications. With support for up to 99 modules and 99 detectors (198 total addressable points) on a single loop and a power supply that can expand up to 6 amps, the MS-9200UDLS provides ample room for expansion as your business needs grow. With an integrated Digital Alarm Communicator Transmitter (DACT) for off-premises monitoring and remote Upload/Download programming support, the MS-9200UDLS is a compact Fire Alarm Control Panel that provides large system technology with remarkable flexibility. The new panel is also compatible with Fire-Lite's new IPDACT Internet Monitoring communicator.
Linear Heat Detector

Protectowire Digital Linear Heat Detector is the most widely used linear heat detector in the fire detection industry. Protectowire also offers Industrial Grade NFPA 72 rated Fire Control & Alarm Panels. It is a continuous heat detector capable of detecting heat anywhere along its length. The sensor cable comprises of two steel conductors individually insulated with a proprietary heat sensitive polymer. The insulated conductors are twisted together to impose a spring pressure between them, then wrapped with a protective tape and finished with a protective outer jacket.
Fike “Cheetah Xi” Detection & Monitoring Panel

Water-based fire suppression systems (sprinklers) are designed to protect people and structures. But when it comes to protecting high value machinery, computers and other electronic equipment, water can be more damaging than the fire itself. An FM200 ECARO-25® clean agent fire suppression system is the BEST choice for protecting electronics and high-value assets reducing the threat of needless downtime and business interruption.

- Monitors a wide range of Fire & Gas detection devices
- Provides suppression capabilities
- Meets NFPA 72 requirements and is UL listed 2x’s
- UL Listed for clean agent
- Clean Agent cylinders & system design based upon certified flow calculations
Buckeye Equipment & Systems

Buckeye Fire Equipment is an international leader in the development and manufacture of reliable fire protection products. Buckeye Fire Equipment has earned an excellent reputation for quality, reliability and value within the commercial and industrial fire protection industry.

Buckeye Fire Equipment line includes handheld and wheeled fire extinguishers, extinguishing agents, fire suppressing foam concentrates & hardware and pre-engineered kitchen suppression systems.

Kitchen Fire Suppression Systems
Kitchen Mister

Open flames, red-hot cooking surfaces, and a heavily grease-laden environment combine to make the modern commercial kitchen a potentially dangerous fire hazard. Kitchen fires spread quickly and have proven to be very difficult to extinguish, making them the leading cause of structural fire damage.

Protecting the modern commercial kitchen from the ever-present danger of cooking oil and grease fires is the reason we developed The Buckeye Kitchen Mister™ System. Utilizing state-of-the-art misting technology, the Kitchen Mister System has proven to be the most effective fixed kitchen fire extinguishing system ever developed, extinguishing potentially deadly kitchen fires fast, before they can spread. That’s why the Kitchen Mister System is quickly becoming the preferred choice of fire protection professionals throughout the world.
SUPPRESSION SYSTEMS

Sea-Fire Marine Systems

Sea-Fire Marine, a division of Metalcraft, Inc., benefits from more than 40 years of experience in fire extinguishing and suppression technology in the offshore vessel and marine industry. With Sea-Fire’s Engineered & Pre-Engineered fire detection and suppression systems, marine vessel operators enjoy the peace of mind due to the constant protection provided. Sea-Fire is leader in the design and manufacture of fire extinguishers, fire detection systems and fire suppression systems for the commercial marine and pleasure craft industry.

Chemguard (A Tyco Company)
Foam Concentrate and System Hardware

Chemguard reflects decades of experience with fire suppression technologies and applications. They produce more than 20 UL listed and FM approved foam concentrates. Through a network of blending facilities around the world, they can ship orders quickly and keep delivery costs down, including emergency foam concentrate shipments. Chemguard’s extensive line of high-quality, durable and field-proven fire-fighting hardware includes: fixed-system proportioning equipment, discharge devices, portable equipment, custom-engineered trailer, skid-mounted foam systems, self-contained foam units and large dry chemical skid units.

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Williams Fire & Hazard Control

Williams Fire & Hazard Control equipment is a direct result of experience gained in the field on the world’s largest and most challenging industrial fires. For the last 30 years, WFHC has developed response strategies and firefighter safety.

Ground-breaking equipment designs include: the world’s first Self-Educating foam nozzle, Hydro-Foam and Hydro-Chemical equipment, the DASPIT Tool, large volume delivery packages such as the Ambassador 1x6 and Thunder Storm based ARAFFF Foams.

WATER SPRAY & SPRINKLER SYSTEMS

IRP’s Team consist of qualified Mechanical Engineers & CAD Technicians who are trained in using approved NFPA tools and certified software when designing water spray and sprinkler systems. The use of NFPA approved Hydraulic Calculation software allows the engineer to determine losses in piping network and required head pressure of the fire pump. Drawings, Graphs, Curves and tabulated results are computer generated and provides the end user with proof that the pipe type selection, pipe sizing, nozzle type and pump specifications will meet the design requirements for the intended application.

IRP Fire & Safety Ltd. represent many internationally recognized and reputable companies offering products and components used in Fire Sprinkler Systems. These products include sprinkler nozzles, monitors, control valves, fittings & pumps.
Nozzles

Reliable is a manufacturer of automatic fire sprinklers, valve and accessory products, and a major distributor of sprinkler system components. In the sprinkler area Reliable produces both of the industry’s two basic types - the solder type and the frangible bulb - for virtually every type of building applications. Reliable also produces a broad range of valves including alarm, dry, deluge, pre-action, and check valve that control water flow to sprinkler systems and actuate alarm signalling.

BETE®
PERFORMANCE THROUGH ENGINEERING

BETE engineers have been world leaders in nozzle design and manufacturing for more than half a century. They make tens of thousands of different products, including fog and misting nozzles, tank washing nozzles, material injection nozzles, and a huge variety of custom spray lances.

SPRAY PATTERN
**Deluge Systems**

A Deluge fire sprinkler system is similar to a pre-action system except the sprinkler heads are open and the pipe is not pressurized with air. Deluge systems are connected to a water supply through a deluge valve that is opened by the operation of smoke, heat detection systems, flame detectors, CCTV and manual release stations. The detection system is installed in the same area as the sprinklers. When the detection system is activated, water discharges through all of the sprinkler heads in the system.

Deluge systems are used in places that are considered high hazard areas such as power plants, aircraft hangars and chemical storage or processing facilities. These systems are also used in Tank Farm & Loading Facilities, Offshore Drilling & Production Installations. Deluge Systems are needed where high velocity suppression is necessary to provide fire control, prevent fire spread and provide effective fire extinguishment.

We offer systems comprising of:

- Sprinklers
- Hose Reel
- Ring Main
- Foam Deluge

IRP Fire & Safety also supplies systems for:

- Helidecks
- Jetty Operations
- Loading areas
- Offshore facilities
- Compressor decks
WATER SPRAY & SPRINKLER SYSTEM

Monitors

Akron Brass firefighting monitors (water cannons) are designed and tested to provide the finest water flow appliances integrating the latest technology. Akron expanded line offers a wide variety of monitors from small to big flow from portable to apparatus-mounted to fixed site systems.

Valves

OCV Control Valves were founded more than 50 years ago with a vision and commitment to quality and reliability. The company has grown to be a global leader just a half century later. In fact, OCV Valves can be found in some capacity in nearly every country around the world from fire protection systems in Malaysia to aircraft fuelling systems in Africa and from oil refineries in Russia to water supply systems in the USA and Canada. You will also find OCV valves in irrigation systems in Europe, South America and the Middle East. IRP Fire& Safety Ltd. Fire Protection valves are all listed with five year warranties.
Pipe & Fittings

Grooved Piping Products are designed for use in fire protection systems and eliminate the need for screwed, welded, or flanged connections. They provide several economic advantages for connecting pipe and fittings when compared to welded or flanged systems. Grooved Piping Products also make field modifications easy, as couplings and fittings can be rotated, added, changed, or eliminated as necessary. Available in a wide range of sizes and configurations. Tyco makes a full line of grooved domestic and import products for fire protection.

Fire Pumps

Our Engineering & Projects Department in conjunction with our suppliers will design and install fully packaged Fire Pump systems for both the onshore and offshore markets. We will continually focus on the goals of supplying our customers with a quality product and offer the full support required for such high level designs.
**Fire Pumps**

IRP can offer a wide range of Electric and Diesel Pumps both for Fire and Potable water requirements respectively.

The pumps can be supplied loose or packaged as an assembly to match clients' requirements in the Commercial, Industrial and offshore industries.

**HYDRANT SYSTEMS**

**HIGH FLOW HYDRANTS:**
Various configurations are available to accommodate monitors and different types of threaded outlet discharges.

**STANDARD FLOW HYDRANTS:**
Various configurations are available to accommodate monitors and different types of threaded outlet discharges. NIBCO Hydrant Systems – Indicator Post & Underground Valves.
WATER SPRAY & SPRINKLER SYSTEM

Hose Reels/Hose Racks

Fire Hose Reels provide a reasonably accessible and controlled supply of water to combat a potential Class A fire risk. A control nozzle attached to the end of the hose enables the operator to control the direction and flow of water to the fire. The most common styles of hose reels are spring driven (which is self-retracting), hand crank, or motor driven. Fire Hose Racks provide an immediate water source for fire control and suppression. It is suitable for building occupant use and conforms to NFPA standards for Class II service. Hose Racks also permits one-person operation. There are various types of Fire Hose Reels/Hose Racks available at IRP Fire & Safety Ltd. to meet specific needs.

SPEED & PARKING SAFETY SYSTEMS

**SPEED HUMPS:**
- 6 Feet x 3 Inch Height
- 4 Feet x 3 Inch Height
- End Caps
- Reflective Eyes
- High Visibility
- Environmentally Friendly
- Recycled Tyres

**SAFETY RUMBLE STRIPS:**
- Application: Railway, Parking, Tunnel, Road
- Easy to install on road with bolts or glue
- Manufactured from PU, 500mm long x 100mm wide x 15mm thick
- Can be installed with appropriate masonry fixings or glued using a suitable adhesive
- Yellow or Black colour

**PARKING STOP:**
- 100% recycled rubber tires
- Lightweight and durable
- Flexible to conform to any road surface
- Visible reflective tape
- Construction ensures no cracking, chipping, warping or rotting
- Easy to install
- Environmentally friendly

**SPEED HUMPS:**
- Made of 100% recycled rubber
- Highly reflective yellow tape for high visibility
- Channelled bottom to facilitate drainage or cover cabling or piping
- Cat eye reflectors for further visibility enhancement
- Reduces speed to 2-6 kmh
FIKE
- Fire Suppression and Detection Systems, Video Flame, Smoke and Intrusion Detection System

WILLIAMS FIRE & HARZARD CONTROL
- Pumps, Monitors, Foam/Hydrochemical, and Fixed Systems

COOPER FIRE/SAFETY
- Wireless Fire Systems, Weather and Explosion Proof Notification Devices

GUARDIAN TELECOM
- Weather and Explosion Proof Communication Systems

MSA
- Fire & Safety Equipment, F&G, Breathing Air & Fall Protection Systems

GENERAL MONITORS
- Flame & Gas Detection & Monitoring Systems

SPECTREX
- Flame Detectors

TRI-MAX
- Compressed Air Foam Fire Suppression Systems

W.S.DARLEY
- Fire Equipment, Pumps & CAF Systems

PROTECTOWIRE
- Fire Detection linear Systems

BUCKEYE
- Extinguishers & Foam

CHEMGUARD
- Fire Suppression Foams, equipment, and Systems, Specialty Foam Pumps

AKRON
- Fire Monitors, Nozzles and Vehicle lighting

OCV
- Control Valves

INDIGO
- Hydrants, Valves, Tanks & Ring Main Piping

ELASTIC
- Environmental Spill Solutions

NIBCO
- Valves, Fittings and Piping Product

TYCO

RELIABLE AUTOMATIC SPRINKLER CO. INC

BETE

MEDC
- Crouse-Hinds by Eaton

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