

“Engineering Solutions for Good Life”

FIRE PROTECTION SYSTEM



TBS INDUSTRIAL SERVICES INC.

FIRE PROTECTION SYSTEM

TBS INDUSTRIAL SERVICES, INC.

TBS has been in the Business since year 2000 providing quality service for Fire Protection System, Security & Safety System, Power Generation & Renewable and Water Resource Management. TBS Industrial Services, Inc. offers Engineering services and a Maintenance Service Division which can routinely perform visual inspections, testing and maintenance.

TBS is affiliated with Tokyo Bosai Setsubi, a Japanese company that provides safety management for 45 years.

A practical understanding of fire protection systems is essential to effective management for every project. We in TBS offers The Best Service, The Best System and The Best Solution for your Company's Fire Protection System. Our success is the direct result of the quality of our people and our focus on customer satisfaction. Our commitment to quality, innovation, and safety will ensure the success of our projects.



Let us be your Best Choice for your Fire Protection System.

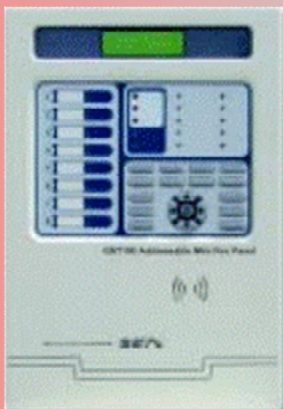
SERVICES

- Engineering and Design
- Supply of Equipments and Materials
- Installation
- Testing and Commissioning
- Preventive Maintenance
- Turn-key projects
- Manufacture of specialized equipments/systems
- Research and Developments
- 24/7 Remote Monitoring of systems
- Supply and Repair of Fire trucks

FIRE DETECTION AND ALARM SYSTEM

TBS Industrial Services, Inc. shall assure of the working condition of the alarm system and sprinkler system of building and other facilities at all times and ready to work properly when such emergency situation occurs.

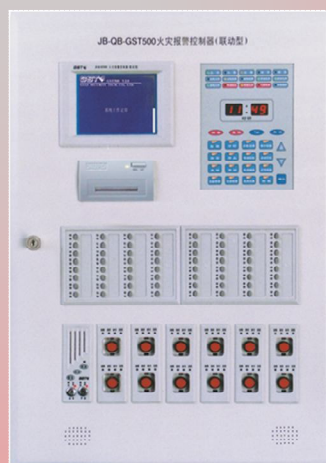
A key aspect of fire protection is to identify a developing fire emergency in a timely manner, and to alert the building's occupants and fire emergency organizations. This is the role of fire detection and alarm systems. Depending on the anticipated fire scenario, building and use type, number and type of occupants and criticality of contents and mission, these systems can provide several main functions: First, they provide a means to identify a developing fire through either manual or automatic methods. Second, they alert building occupants to a fire condition and the need to evacuate. Another common function is the transmission of an alarm notification signal to the fire department or other emergency response organization. They may also shut down electrical, air handling equipment or special process operations, and they may be used to initiate automatic suppression systems.



128 Addressable
Points
1 loop



2 loop capacity
Up to 477
Addressable Points



2 to 8 loop capacity
Up to 1,936
Addressable points



8 loop Capacity
Up to 1,936
Addressable points

FIRE DETECTION AND ALARM SYSTEM



Control Panel



Optical Smoke Detector



Dual Heat Detector



Flame Detector



Combined Smoke and Heat Detector



Reflective Beam Detector



Manual Call Point



Fire Alarm Bell



Self-Contain Fixed Temperature Heat Detector and Alarm



Self-Contain Smoke Detector and Alarm



Repeater Panel



■ FIRE TELEPHONE SYSTEM



Fire Telephone Panel



Telephone Jack Socket



Fire Telephone Handset



Fire Telephone Mobile Handset



Speaker Fire Telephone Outstation

FIRE SUPPRESSION SYSTEM

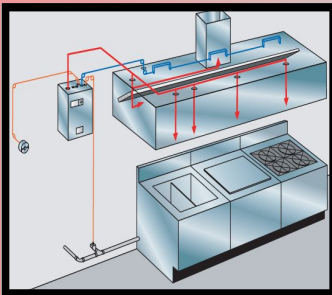
■ AUTOMATIC FIRE SPRINKLER SYSTEM



- Pendent Type Sprinkler Head
- Upright Type Sprinkler Head
- Sidewall Type Sprinkler Head
- Concealed Type Sprinkler Head
- Floor Control Valve Assembly

■ KITCHEN SUPPRESSION SYSTEM

The first line of defense against fire in a commercial kitchen is the fire protection system installed in the exhaust hood. Appliance specific fire suppression is a wet chemical system to be used when the equipment placement is known and expect few, if any, changes. Nozzles are selected and aimed at specific hazards on each appliance. The chemical agent itself is a nearly neutral PH agent that can be safely cleaned up with water and a sponge.



■ WATER MIST SYSTEM

Advantages

- Quick Temperature reduction of the protected hazard
- Effective on deep-seated fires
- Easy refilling
- Effective in flammable liquid fires eliminating the risk of re-ignition
- Minimal water damage



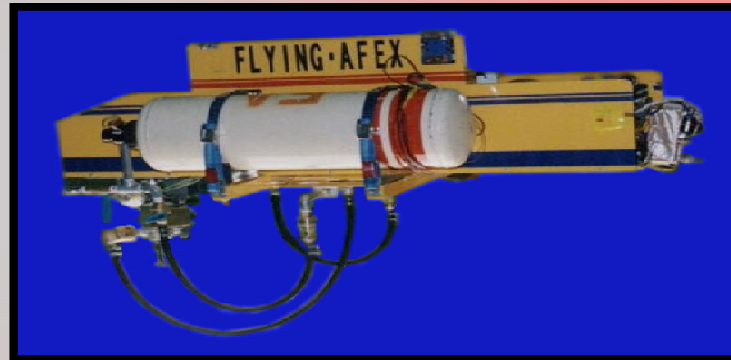
■ Intelligent Automatic Self-propelled Fire Extinguishing System



Mini AFEX is the automatic fire extinguishing equipment complete with two ultraviolet flame detectors, an actuator, a glass bulb and a small cylinder. This fire suppression system is designed to extinguish a fire inside electrical enclosures or cabinets such as switchgear cubicles and motor control centers.

■ Flying Automatic Self-propelled Fire Extinguishing System

Flying AFEX is an automatic fire extinguishing robot that travels on a monorail below the ceiling, and is electric motor operated. It mainly consists of an ultraviolet fire detector, two extinguishing cylinders, a motor for traveling, an infrared CCD camera, and two 12V batteries for commercial use.



This is a floor-mounted standalone automatic fire extinguishing robot which is composed of a conventional cylinder for fire extinguishers, a nozzle, a flame detector, and an infrared camera in a compact box. It monitors a fire for 24 hours, 7 days in the place of a human being.



List of Clients

AIR LIQUIDE PHILS.	MANILA PENINSULA
AGUSTIN BUILDING	METRO DRUG
ALLIED BANK	MIRANT PAGBILAO CORPORATION
ASEA BROWN BOVERI	MIRANT SUAL CORPORATION
ASIAN DEVELOPMENT BANK	NIELSON TOWER
ATHENAEUM CONDO	NUTRI ASIA FOOD INC.
BANCO DE ORO	ORTIGAS AND COMPANY
BAYAN TELECOMMUNICATIONS INC.	PHILIPPINE AIRLINES
CBK POWER COMPANY LIMITED	PHILIPPINE LONG DISTANCE TELEPHONE COMPANY
CHINA BANK	PILIPINAS HERITAGE LIBRARY
CITYLAND INC.	QUEZON POWER (PHILIPPINES) LTD. CO.
CLARET SCHOOL OF Q.C.	RENAISSANCE 2000
COCA-COLA BOTTLERS	RENAISSANCE 3000
COCOLIFE	SAN MIGUEL MILLS
CROWNE PLAZA	SHANGRILA-MAKATI HOTEL
CYPRESS GARDEN	SPI GLOBAL
DISCOVERY CENTRE	STONE HOUSE APPARTELLE
EDSA SHANGRI-LA	TEAM ENERGY CORPORATION
FIRST PHILIPPINE REALTY CORP.	TMC AUXILIARY BUSINESS CENTRE
GOLDLAND PLAZA	TRADERS HOTEL
HIGHLANDS PRIME INC.	TV5 MEDIA CENTER
HONEYWELL CEASA	TV5 NOVALICHES
LCC LEGASPI	TWO SALCEDO
LRT NORTH EXTENSION	UNIVERSITY OF ASIA AND THE PACIFIC
MAKATI SHANGRI-LA	UNITED PULP AND PAPER COMPANY INC.
MANILA ELECTRIC COMPANY	WYETH PHILS.

GAS SUPPRESSION SYSTEM

■ IG-100 (Nitrogen Gas) System

■ The Best of Halon Alternatives

Applications

- ☞ Telecommunications Facilities
- ☞ Commercial & Institutional Facilities
- ☞ Data Centers & Industrial Applications
- ☞ Art museum
- ☞ Archives museum



■ FIRE FIGHTING PUMPS



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