



DELTAFIRE[®]
AUSTRALASIA PTY LTD

Out of the ordinary environments demand beyond the ordinary protection



Nationwide Service, Nationwide Safety

Delta Fire (Australasia) Pty Ltd has established an enviable reputation across Australia for providing specialist solutions and expertise in three key areas of fire safety - the *protection of high-hazard environments*; the *supply of equipment and systems* to municipal and industrial firefighting organisations; and the *supply of rescue equipment* for those involved in urban search and rescue (USAR), confined space rescue and road traffic accident (RTA) extrication.



The environments that are today safeguarded by Delta Fire include: *petrochemical storage and processing facilities; high-risk industrial plants; commercial kitchens; materials handling, mining and mineral extraction equipment; renewable energy wind turbines; and IT, data processing and telecommunications operations*. The company's customer list includes many of the country's most prominent commercial and industrial organisations, including **Virgin Blue, Qantas, Thiess Construction, Shell, Freemantle Ports, BP Petroleum, Neumann Petroleum, and Royal Vopak**.

Headquartered in Queensland, Delta Fire has operations in Brisbane, Sydney and Melbourne, and has a well-established network of authorised distributors and channel partners. This enables the company to provide a consistently high level of service and support across Australia. This commitment to customer service has also resulted in Delta Fire undertaking a number of major projects throughout the Australasia / Pacific region.

The company supplies both pre- and post-engineered solutions, and the technical excellence of its offering is underpinned by Delta Fire's 50% holding in Fire Engineering Solutions Pty Ltd, a specialist engineering, consulting, project management and procurement company.





Protection where it is most needed

Every fire has the capacity to escalate into a life or property-threatening disaster, but nowhere is this risk so challenging or potentially so catastrophic than in high-hazard environments. Typically, these environments are characterised by *high fuel loads*, the *risk of explosion*, the *potential for toxic or highly-flammable spillage*, *environmental damage* and, of course, *serious loss of life*.

Such threats are overcome only by designing, manufacturing, installing, commissioning and maintaining the best-performing products and systems. They are scenarios where there is no scope for compromise and no substitute for experience, expertise and commitment.

Petrochemicals

Whether it is an offshore exploration installation, terminal jetty or onshore processing or storage facility, a petrochemical or LNG fire is the nightmare scenario.

These fires are frequently characterised by devastating explosions, rapid development of the fire, flammable fuel spillages, debilitating and environmentally threatening smoke and toxic gases, and high rates of heat-release, so firefighting installations must be at constant peak-performance readiness to respond immediately a fire breaks out. Due to their often exposed locations, these systems must also be robustly engineered to contend with hostile and often highly corrosive marine environments.

Success depends on having the most appropriate proven systems in place - solutions that are a perfect match to the fire challenges that are specific to the particular site.

This demands having an arsenal of delivery systems, firefighting monitors, gaseous suppression systems and foam concentrates from which to choose. To achieve this, Delta Fire has partnered with the world's class-leading suppliers of proven protection solutions for petrochemical environments.

Mining and Mineral Extraction

Bulk materials handling and the huge mineral-moving vehicles on which the country's mining and mineral extraction depend, and smelting-operation pot carriers used in the steel industry are not only very expensive and time consuming to repair or replace, in the event of a fire there is also a considerable risk of serious injury to the equipment operator.

These applications demand extraordinary, specialist protection to provide fire suppression for the equipment and a thermal barrier to protect the operator's skin and clothing from heat, fire and flame. To meet these challenges head-on, Delta Fire has teamed-up with the leading specialist solution providers in this extra-ordinary sector of the fire safety market to provide the most reliable and sophisticated vehicle automatic fire extinguishing systems.

Renewable Energy

With an increasing proportion of our nation's renewable energy coming from wind turbines, fire protection is essential to safeguard the expensive turbine, as well as to ensure that fire does not spread from the turbine to the surrounding countryside with the potential to cause devastating bushfires.

The characteristics of effective and swift turbine protection are speed, effectiveness and reliability, as even the smallest piece of burning debris falling to the ground can ignite the surrounding countryside.

Specially-developed solutions are the only way to deliver this degree of swift and dependable fire safety for wind turbines, so Delta Fire has partnered with the pre-eminent system manufacturers to ensure that protection is provided around-the-clock and without the need for human intervention.

To ensure that it provides appropriate protection for these environments, Delta Fire supplies only market-leading systems.

Commercial Kitchens

Restaurant fires typically start in the kitchen, where highly-flammable cooking oil or grease build-up in hoods, ducts and the fan of the exhaust system is usually the first item ignited. It is an environment and fire risk that can swiftly engulf the entire building and where the installation of the wrong suppression system will almost certainly have dire consequences.

To ensure that it provides appropriate swift-action protection for these environments, Delta Fire supplies only market-leading pre-engineered, systems that meet the highest international standards and codes, and that have been installed successfully in hundreds of thousands of kitchens across the world.

High-hazard Environments

High-hazard fire risks are far more common than is often first appreciated - heavy industrial plant, certain manufacturing process, the transportation of highly-flammable raw materials, road and rail tunnels to mention just a few. Hazardous environments can also be caused by natural or man-made disasters - earthquakes, cyclones, floods, and tsunamis - resulting in the need to embark on dangerous urban search and rescue operations.

Successfully dealing with these challenging events means having available world-class firefighting and rescue equipment such as fixed and mobile high-volume foam delivery systems, foam concentrates, gaseous suppression systems and specialised hydraulic and pneumatic rescue, extrication and structure and vehicle support equipment.

Delta Fire has met these challenges by forming close business relationships with a number of the key players, each with a proven reputation in a particular sector of high-hazard environment protection.





IT and Communications

Few businesses today can survive for very long if their computer servers, switchgear; data processing facilities, control centres or telecommunications centres are severely damaged or destroyed by fire.

The challenge when safeguarding these business-critical or mission-critical environments is to react to fires in the shortest possible time and suppress them before they have time to spread or take hold. At the same time, it is essential that the selected suppression agent does not itself damage the equipment it is there to protect, plus many of these areas are occupied by staff so the discharge of the agent must not represent a threat to their health.

These obstacles have been overcome by Delta Fire by working with the international market leaders in IT and communication clean agent gaseous suppression protection.

Our commitment to customer service has also resulted in us undertaking a number of major projects throughout the Australasia / Pacific region.

Engineering Services

Underpinning every Delta Fire solution is the company's 50% holding in Fire Engineering Solutions Pty Ltd, a specialist engineering, consulting, project management and procurement company.

With an increasing percentage of commercial and industrial buildings being designed using fire engineering principles and the adoption of risk assessment-based fire safety, this ensures that expert judgement, coupled with sound technical understanding, is harnessed when devising the most appropriate solution that represents excellent whole-life value.

Fire Engineering Solutions also works closely with Delta Fire's clients' architects and mechanical services consultants, providing engineering consultants with specialist fire safety advice and technical support, peer-reviewing other consultants' recommendations and developing fire-modelled strategies.



DELTAfire[®]
AUSTRALASIA PTY LTD

World class products, available nationwide

Delta Fire (Australasia) Pty's products and services are available throughout the Australasia / Pacific region.

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