



A Fully Engineered ETI AFFF
Fire Suppression System

A WHOLLY OWNED AND OPERATED
SUBSIDIARY OF ETI FIRESYSTEMS PTY LTD
BRISBANE QUEENSLAND
AUSTRALIA



**PATENT
PENDING**

**Fully Engineered and Hot Fire
that meets and exceeds
Australian Standard AS5062.**

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AN ISO 9001
Super / Cold Agent.
of
Jarekwise.

Company -

SAI GLOBAL

~~Under contract~~
currently under Audit

— See website
for LCCO.

brian

From: "Leigh Fire" <leigh@etifiresystems.com>
To: "Brian Ruffles" <brian@etifiresystems.com>
Sent: 27 Oktober 2011 14:39
Subject: Updates for website

As discussed mate,

you have the written material with you. I said I would knock up some additional blurb on the below subjects

ETI FIRE WIRE LINEAR DETECTION

ETI is pleased to announce the release of its new electric linear detection wire – system – FIREWIRE. It is unique in that it uses three wires to form a physically strong cable that can be positioned through the fire risk. This provides a continuous fire detection medium that has some significant advantages. The ETI system used twin detection cables between a common connection. This is unique in fire wire as it gives dual detection capability for faster more reliable fire detection. It is also fault supervised to the alarm panel. ETI has developed a dedicated control panel complying to AS5062 for this application. This incorporates an actuation missile switch in the face of the alarm. This eliminates the need to install a separate manual actuator at the driver position. This suits compact installations where space is limited and it lowers cost for hardware and installation.

ETI FIRE SCHOOL

Established in 2011, the ETI fire school, was dedicated to supporting the industry with a first rate fire school that can train Designers, Installers and Maintenance people. The training is structured on AS/ISO 10015. It operates on two levels. Level I is conducted at the ETI Technical Facility in Java Indonesia, and as part of the practical session, live fire demonstration imparts to the student a lasting impression and confidence as to the results of good fire system practices. Level II is a portable training package that can be conducted at any location in any country by ETI or its distributors. It is the same curriculum as level I and the practical session includes demonstration of system operation with water discharge, but no live fire. Nevertheless it is effective in bringing first rate training to any customer at any location. ETI also supports its distributors with 'Train the Trainer' programs to license the ETI curriculums into their own training networks to ensure the availability of training to all distributors and customers in need of it. Both levels are certified by the trainee successfully passing a written examination.

- 2) Scrutinise the listing. Is it recognised by NATA? If it claims a listing from a US or other foreign supplier, ask for details of the actual fire testing used to gain the listing. Do not automatically accept US based listings. These fire systems are designed for different climatic conditions and they are also made to meet commercial, legal and political influences that prevail in the USA.
- 3) Ask if the fire system is Engineered or Pre-Engineered? You may find 'Pre-Engineered' systems are tested to very small scale and therefore limits should be imposed on their application.
- 4) Plan the risk assessment process. The supplier has an obligation to carry this out. It needs participation of the owner, operator, machine equipment supplier, maintenance and management. If you decline participation, you are not complying to AS5062!
- 5) Check that the hand over includes all the paperwork required under AS5062. Actually read it and evaluate if it has been competently done.

NEWS ITEM - August 2005

✓ Koep

ETI SOLVES RISE OF PRESSURE DILEMMA!

Over the last 20 years, 'Rise Of Pressure' sensors proved to be excellent fire detectors for diesel engine environments. However, there were two problems:

- 1) The types on the market were classified in explosives categories of international Dangerous Goods! While they were difficult to transport and manage previously, in this last decade they have become virtually impossible to manage.
- 2) They were made using a very small 6mm tube. They typically had a design limit of 2.5 times the detector length as a design limit. As machines got bigger, the design limits were exceeded.

ETI solved this by developing in house, a new sensor. The propellant is less volatile yet still gives reliable auto-ignition at 195 degrees centigrade. The chemicals used in our largest (2 metres) sensor only adds up to 18 grams. This is well below the declarable limit of 5Kg for the relevant chemicals under United Nations DG protocols. This means that large quantities of ETI sensors can be shipped and stored without a requirement to declare DG! Further, ETI made it's sensors in a 12mm tube that allowed more propellant to give a stronger pneumatic pulse. Controlled tests have confirmed ETI's design rule allowing 6 times the sensor length in a hose run to the actuating valve.

So while others bale out when it just gets too hard, trust ETI to find the answers!

IF YOU HAVE HAD ENOUGH OF LOSS OF PRESSURE SYSTEMS CAUSING YOU HEADACHES? -COME
BACK TO RISE OF PRESSURE WITH ETI!
OR GET THE BEST OF BOTH SYSTEMS AND ASK FOR OUR DUAL SYSTEM!

NEWS ITEM - March 2009

JULY 2011

ETI RELEASES THE MOST ADVANCED DESIGN SOFTWARE FOR MOBILE EQUIPMENT FIRE SYSTEM DESIGN! Release 12.

In todays world, companies providing fire protection equipment, need to make reliable, accurate and compliant designs. Business needs to estimate accurately so that neither the supplier or the customer gets disappointed with a costing error.

News Item Aug 2011

ETI Releases New Super Agent

ETI has used its research laboratory and Fire Simulator to develop a new super agent for mobile systems.

Pre Engineered fire systems use standard petro-chemical fire fighting foams that were designed for the petrochemical industry.

ETI has developed a new super agent that gives far superior performance, for mobile equipment fire systems using limited amounts of agent to put out considerable sized fires. While the use of this agent will add cost, it is minimal compared to the improvement in performance. ETI's listed discharge times in some cases reduced to ^{less than} half the time used with standard agent.

This agent has also been formulated for low ~~cost~~ temperature use in climates with temperatures ~~minima~~ as low as minus 40 Celsius.

Overall The major impacts for this new agent is across the industry. For large machines, Low risk profiles are achieved by simply updating existing fire system designs at very little extra cost.

For underground mining, and small machines & road vehicles, it has a major impact because ~~more~~ smaller agent cylinders can now give a big performance, where space to locate ~~extra~~ agent cylinders has been a problem.

ISO 9001

April 2011

The ETI Factory ~~having~~ implemented ISO 9001 Quality control systems in 2007-2009, in conjunction with its ISO 17020 program.

In 2011 ETI decided to verify its manufacturing quality control by external audit. We are pleased to announce that a contract has now been made with SAI Global. ETI plans to complete audit to certification before end 2011.