

Nominee: BRYLAND FIRE PROTECTION LIMITED

Nomination title: DATA CENTRE FIRE SUPPRESSION SYSTEM USING 3M™ NOVEC™ 1230 EXTINGUISHING SYSTEM

“When one of Bryland Fire Protection’s major clients identified a new Data Centre Installation at its prestigious Woking site, it was up to Bryland to provide a suitable fire protection system to provide 24/7 fire coverage to the risk. The newly commissioned Data Centre would provide Co-location/Hosting services to many important clientele so it was not only important to guard against the perceived fire risks, but to meet the expectations of their customers in regard to safeguarding critical data.

Bryland recommended the use of Novec 1230 fluid to protect the space. The manufacturer 3M’s 20 year Blue Sky™ Warranty meant that the customer would not have to worry about the phasing out or banning of the Fire Suppressant media and could feel safe in the knowledge that it would be suitable for the foreseeable future and beyond. This combined with Novec 1230 fluid’s enhanced green credentials made it the perfect choice.

The next challenge for Bryland was a technical one. As with all data centres, space was at a premium and the customer had earmarked two cylinder storage areas for the installation of the required cylinders away from the protected area. Utilising a 25 Bar Kidde/Novec 1230 fluid system, Bryland Fire Protections’ In-house Design Team provided a bespoke system solution using pinpoint nozzle coverage and modular cylinder design to provide the required protection to the data hall.

A total of 56 Cylinders with over 6000 Kg of Novec 1230 fluid were installed, all with their own individual pipework system and discharging nozzles, covering the data hall room and floor void. This was combined with addressable “coincidence” Smoke Detection to activate the Novec 1230 fluid discharge to protect the space as well as a High Sensitivity Smoke Detection system arranged within the risk to provide the earliest possible warning of a fire providing total peace-of-mind for the customer.”

Why nominee should win

- Bryland Fire Protection provide fire protection solutions for the Data Centre industry using their own, in-house design team and trusted fire industry manufacturers.
- This Data Centre has a Total Flood Fire Suppression System designed and installed by Bryland Fire Protection providing 24/7 protection, 365 days a year.

- Environmentally Friendly solution with Zero Ozone Depletion Potential and Global Warming Potential of one and an Atmospheric Lifetime of just 5 days.
- Novec 1230 fluid discharges as a colourless, electrically non-conductive and noncorrosive gas that does not damage sensitive equipment. There is no post discharge residue, no costly clean-up operations are required, and down-time is kept to an absolute minimum.
- 3M Blue-Sky™ Warranty provides assurances against the banning or phasing out of Novec 1230 fluid for a minimum period of 20 years.