

Nominee: BRYLAND FIRE PROTECTION LTD

Nomination title: PROTECTION OF A DATA CENTRE FACILITY USING 3M™ NOVEC™ 1230 EXTINGUISHING SYSTEM

When one of our key customers successfully secured a contract to build a data centre facility in Abingdon, Oxfordshire, Bryland Fire Protection were on hand to provide our guidance and recommendations for the most suitable fire suppression solution. The project brief was to provide an environmentally friendly and proven system to protect a Data Hall as well as a small Hub Room supporting power and the battery back-up associated with the facility.

Having extensive knowledge in the available fire suppression system options, Bryland Fire recommended the use of Novec 1230 fluid to protect these spaces. 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.

As there was no dedicated cylinder storage area, our solution had to include for the required system cylinders being installed within each protected area. Utilising the latest technology, we opted for the Kidde Fire Protection 25 Bar Novec 1230 fluid system. Bryland Fire Protections' In-house Design Team provided a modular system solution with each cylinder having its own dedicated pipe network and agent distribution nozzles in the room, ceiling and floor void as well as the contained cold aisle arrangement.

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.

A total of 5 No. cylinders with over 400 Kg of Novec 1230 fluid were installed, all with dedicated system pipe networks and distribution nozzles. The suppression systems were appropriately supported with an addressable "coincidence" Smoke Detection system to activate the Novec 1230 fluid discharge to and protect the space. We also installed a series of High Sensitivity Smoke Detection systems. These were 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 provide innovative 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 providing 24/7 protection, 365 days a year.



- **Bryland Fire recommended Novec 1230 on this project for its environmentally friendly credentials.**
- **Bryland Fire have partnered the very best manufacturers in the fire industry to offer solutions to meet the requirements of our many prestigious clients. Our valued partnerships enable us to stay at the forefront of new technologies and industry developments.**