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| <b>PROJECT:</b>         | <b>East Metro Health – RPH (A Block)</b> |
| <b>LOCATION:</b>        | <b>PERTH WA 6000</b>                     |
| <b>SCOPE OF WORK:</b>   | Wet/Dry Fire Protection                  |
| <b>COMPLETION DATE:</b> | 2020                                     |
| <b>CONTRACT VALUE:</b>  | \$ TBA                                   |

*Royal Perth Hospital is one of Australia's largest and busiest hospitals, offering an extensive range of services for adults across a range of clinical fields. The emergency department is one of the busiest in Australasia and is currently the second largest trauma hospital in the country.*



## SCOPE DETAILS

Within our scope, we were tasked with the design and installation of:

- A compliant Fire Sprinkler system compliant with AS2118.1
- A compliant Fire Detection & Occupant Warning system with AS1670.1
- A compliant Stat-X Dry Powder Fire Extinguishing system compliant with AS4487-2013

The existing fire sprinkler system was modified to allow for the installation of the new ceilings throughout the building.



The sprinkler system is charged from a water supply coming from the Water Corporation town's main connected to the existing fire Pumps. The Control Valves are located on Levels 1, 2, 11, 12 and 13

The Fire Detection & Occupant Warning system works included the modification and re-programming of the main Fire Control Panel to include for the sprinkler valve test switches on Levels 2, 12 and 13. The fire detection system for the Lift Motor Room also included the install of a Sub Indicator control panel which was linked back to the site main FIP.

Each motor room has smoke detection and VESDA aspirating system protection with optical smoke detectors installed.

The Stat-X Dry Powder Fire Extinguishing system is installed to cover the Lift Motor Rooms located on Levels 11 (3 rooms), 12 (3 rooms) and 13 (1 room) which are wired back to the FIP module on Level 12. The canisters for the system are located within a purpose built enclosure around the Lift Motor and Switch Rooms.



## CHALLENGES & SOLUTIONS

Throughout the project we were faced with various challenges:

- The hospital site is fully operational whilst our works were completed. All personnel required to work on this project were required to complete Department of Health inductions prior to being allowed on site.
- Due to the nature of the site certain works have/will need to be completed after hours. This is scheduled by continual liaison and communication with Department of Health and hospital staff throughout.
- Existing fire protection equipment on site was poorly maintained due to existing faults and the age of the equipment on site. Firesafe encountered a number of items which were not operational throughout the system. Firesafe diagnosed/continue to diagnose issues and resolve these by installing new hardware and software if/as necessary to ensure the system is operational.