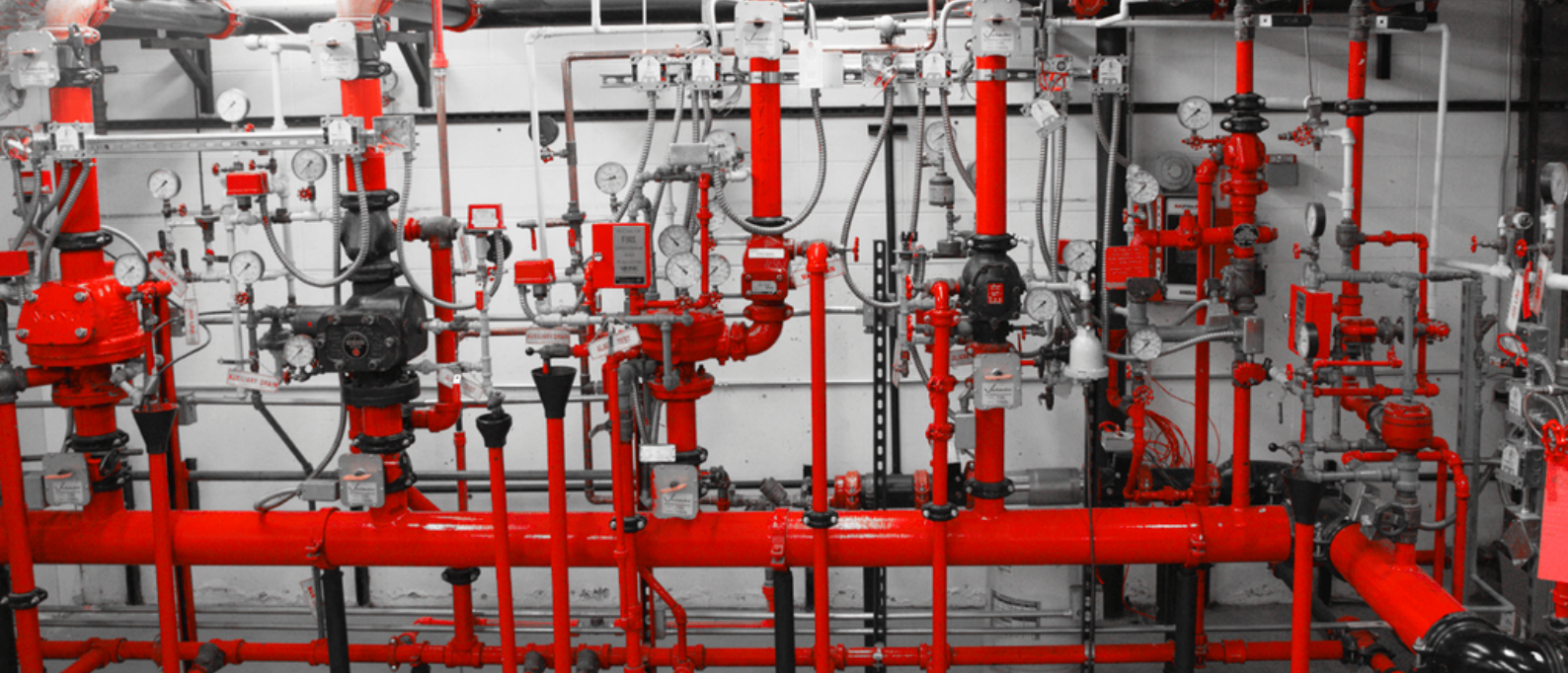




Biopharma facility accelerates sprinkler incident response

By mapping and cross-referencing its entire sprinkler network in PlantQuest, the site has removed the ambiguity and delays that slowed response to sprinkler-related alarms.

Site Challenge

Across a 120,000 m² site spanning six levels, locating sprinkler valves, flow switches and tamper switches was slow and manual. With 84 sprinkler zones, many running across multiple levels and buildings, it was difficult to know which zone related to which valve or flow switch.

Inconsistent tagging between Fire System and Sprinkler System IDs meant responders had to cross-reference several sources during an incident. That lack of visual clarity and location understanding delayed response to sprinkler-related alarms.

Solution

- PlantQuest engineers mapped the Fire System IDs to the Sprinkler System tags ensuring quick search results.
- The exact location of every valve, flow switch and tamper switch was recorded within PlantQuest using the sites existing layout drawings.

- Visually defined the coverage areas of all sprinkler zones, with zone-to-IO relationships linking valves, switches and zones established.
- A searchable network that can be done by Sprinkler Zone ID, Fire System Tag or Valve Tag that shows the location of the sprinkler zone, its associated devices, and the most efficient route to them all from any location within the facility.

Outcome

- A unified tagging structure that eliminates ambiguity between Fire System and Sprinkler System identifiers.
- Full visibility of zone-to-valve relationships, with precise locations across all six levels.
- Rapid navigation to any sprinkler device or valve, materially reducing response delays times.
- Clear visualisation of sprinkler coverage across 84 zones.
- An as-built, presentation-ready dataset and updated ERT documentation, suitable for the sites insurance and and internal stakeholders.