

# AUSTRALIAN RED CROSS BLOOD SERVICE

From 2015 to 2016, the historic Red Cross Blood Bank building underwent a major refurbishment and modernisation. The total project spanned five floors of temperature-controlled administration, laboratories, blood donor and storage facilities.

We were commissioned to upgrade the entire electrical, communications, security and fire systems. The scope of work also included installation of Australian Standard certified medical grade ducting for gas, air, electrical, data and body protect systems. The project consisted of separate stages across a two-and-a-half-year period.



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## LOCATION

Perth, Western Australia

## CHALLENGES AND ACHIEVEMENTS

The project was particularly challenging as the site is an operational 24-hour blood bank. We were required to maintain supply to critical services and blood storage units, including operating temperatures, whilst the entire electrical, communications, security and fire systems were upgraded.

## THE TECHNICAL

The installation required duplication of all critical services; this encompassed 825kVA and 460kVA power backup generator sets, 2 x 1000kVA HV transformers and associated HV metering, 2 x 1600A 6 metre main switchboards, thousands of metres of submains cabling, 46 switchboards and distribution boards, 2 x 80kVA battery backup UPS units, mechanical services power to HVAC chiller units, fuel tanks, fuel piping and pump systems, controls, PLC systems, access control, security, addressable fire detection system, EWIS, LED recessed lighting, downlights and continuous lighting, Dynalite lighting control system, monitored emergency and exit lighting, MATV system, Panduit Cat6 data communications cabling, fibre optic infrastructure backbone cabling and data cabinets.