

Project Profile

RAAF Base Darwin Airmen’s Mess Mechanical and Refurbishment Works



Client	Broadspectrum
Location	Darwin, Northern Territory
Duration	December 2019 to April 2020
Contract	Lump Sum Construct Only
Cost	\$1.4 million

Project Overview

The RAAF Base Darwin is a Royal Australian Air Force military air base located in the city of Darwin.

It was identified that one of the buildings on site required the replacement of the heating, ventilation and air-conditioning (HVAC) system. Given the operational requirements of this building during training exercises, the Department of Defence approved the building to be shut down to allow for works to be conducted.

The scope of works consisted of the refurbishment of aesthetic architectural finishes to the building and the replacement of mechanical systems including ducted HVAC systems, electrical services, fire systems, epoxy floor coatings in kitchen area, ceilings, windows and the patching and painting of internal walls, doors and frames.

Mechanical works included the full replacement and commissioning of air-cooled DX standalone units, air handling chilled water units, fans, kitchen exhaust hoods, pumps, water treatment systems, chilled water buffer tanks, ductwork, air diffusers, refrigeration pipework, electrical equipment, automatic control equipment and air curtains. Associated electrical works comprised

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of power and lighting sub-circuits, luminaires, exit and emergency luminaires, motion sensors and residual current devices.

To ensure the project met the deadline requirements, the various scope of work packages were completed concurrently, with each of the different trades working alongside each other, rather than in a staged process. A major challenge was the long lead time up to eight weeks on various mechanical units required for the works. Despite the strict time constraints on the project, the long lead times did not impact the overall program delivery.

The project was completed with 19 personnel, of which six were indigenous achieving a 31% Indigenous Participation rate. An Indigenous safety advisor and electrical apprentice received on-the-job training during the works.

10,000 work hours were completed over the duration of the project.

