

## Project Details

### Client

Shire of Halls Creek

### Location

Halls Creek Airport (YHLC),  
Western Australia

### Value

\$0.25 Million

### Date

December 2014

### Duration

3 Weeks

Due to a dangerously low and non-compliant insulation resistance of the existing runway lighting circuit, which was identified in a number of annual Aerodrome Technical Inspections (ATI), AMS was engaged to design and install a replacement runway lighting system using Light Emitting Diode (LED) technology. The scope of works also included the installation of new LED Illuminated Wind Direction Indicators (IWDI) for each runway threshold.

AMS utilised its own Rock Saw to cut the trench for the new lighting cable and duct system. This machine efficiently trenched 300m per shift to 600mm depth whilst keeping disturbance of the runway strip to a minimum. The majority of the excavation work was carried out during the hours of darkness in order to minimise the impact on normal day time airport operations. AMS also carried out all service locating prior to excavation, confirming the whereabouts of existing in-ground utilities.

To ensure the new electrical installation stands the test of time, all primary cable connections were made using specifically-designed aviation connector kits. This methodology moves away from traditional heat-shrunk cable jointing and provides superior durability.

AMS carried out all commissioning testing including flight testing using our in-house CASA-approved Pilot.

## Project Achievements

- ✚ New LED airfield lighting system installed compliant with MOS 139.
- ✚ Development and use of innovative lighting mount specifically manufactured for this project.
- ✚ Aerodrome remained open during works, no disruption to scheduled flights.
- ✚ Zero quality non-conformances.
- ✚ Zero safety or lost time incidents.

