

# Incident Investigation Summary

Responsible Manager: MDG Manager

Incident Reference No: 312388

Person Responsible for National Implementation: MDG Area Managers

## Electrical incident whilst carrying out testing at St Fergus Terminal

Site personnel were carrying out a number of phase rotation checks on a modified low voltage distribution board which was part of an ongoing construction project. Upon commencement of a test, the section being checked short circuited causing the protection to operate. No personnel were injured and the fault was contained within the rear terminal chamber of the circuit.



Pic1: Cable shorted in rear of panel



The cables from the MCCB to the switchboard cable entry cubicle on the circuit being tested were not terminated due to the terminal block not being fitted at the time of installation. The un-terminated cables subsequently shorted to earth when energised.

Pic2: Missing Termination block

### Learning points:

- When accepting permitry on behalf of a working party it is essential the duties associated with holding the permitry are carried out. Specifically,
  - The permit holder must ensure that the working party under their supervision is working to the correct standards and procedures whilst the permitry is in operation.
  - When hand back of permitry occurs to the issuing authority, the working party through the permit holder shall report and record any work or equipment which is incomplete and/or any items left in the work area
- Permitry issuing authorities shall ensure that suitable measures are put in place to control the hazards caused by incomplete work. This may include
  - cancelling suspended permits and the issuing of new permitry detailing and controlling the specific hazards of the incomplete work
  - Reviewing the points of isolation associated with the hazard and replacing safety notices as appropriate
- When any electrical work is being carried out it is essential that before energisation of any circuit the appropriate checks are carried out. The person energising the circuit may need to carry out visual inspections, electrical tests, drawing checks, verification of test data and confirmation of commissioning documentation.

For further information regarding this bulletin please contact Martin Clayton (Responsible Engineer Electrical) or the MDG Area Manager.