



# FIRST ALERT

Date: 8/3/2017

Maximo Reference: 96994

## 220kV Disconnecter Left Unlocked

### EVENT

- Disconnecter 704 at Invercargill substation was found unlocked by a Grid Skills trainer on 8/3/17.
- On 10/2/17 this disconnecter had been closed as part of a planned switching sequence.
- The operator has removed the padlock from the disconnecter, performed the switching action and then failed to re-attach and lock the padlock.
- The key for the padlock was found back in the key safe.



Padlock hanging on stainless steel wire below the disconnecter

### IMMEDIATE ACTIONS

- When the disconnecter was found to be unlocked it was immediately locked and the disconnecter contacts visually checked to ensure they were fully closed.
- Transpower and Electrix management advised.
- Investigation commenced.

#### Extract from Transpower Specifications:

#### [Operation of circuit breakers and disconnectors TP.OG 42.02](#)

Check visually that all disconnecter or earth switch contacts are fully opened or closed, before locking and crossing off the action on the OS form.

#### [Operating Sequences TP.SS 07.12](#)

Refer to the **operating sequence** for each action, and:

- Confirm and cross off all items that have been actioned previously;
- Identify the **equipment**/location on which the action is to be carried out;
- Confirm that the actual state of the **equipment** is aligned with the intended action on the **operating sequence**;
- Carry out the action;
- Confirm that the action is complete, and;
- Cross off the item with a single stroke.



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