



# *Safety Advice 21-2014 (Mar) (NZ)* *(Transmission)*

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The following First Alert courtesy of Transpower outlines initial advice of substation equipment failure with flashover. The incident is under investigation and any cause information made available will be published as a supplementary advice.

The full safety advice follows below.

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TRANSPOWER



# FIRST ALERT

Date 20 March 2014

## Flashover on Islington 66kV C15 Capacitor Bank

### EVENT

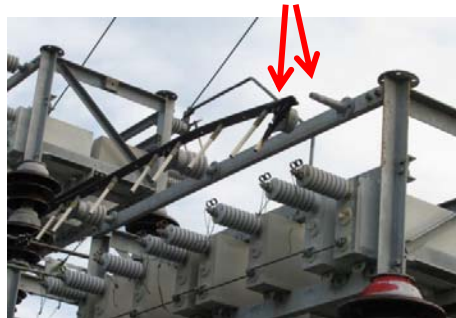
On 17 March 2014 at 8.20am, the Islington 66kV Capacitor bank C15 fuse support insulator flashed over. The fault was cleared through manual operation of the C15 CB by NGOC following visual observation. This is a strong reminder of the risks associated with our assets and identifying the potential hazards before entering restricted areas, wearing full PPE and knowing exit routes.

As a precautionary measure, the area around the capacitor bank C15 has been cordoned off and is under permit. C14 and C16 have been removed from service and tested.

#### Extent of Event (refer to photos)

- 8 capacitor cans have blown fuses and one can is leaking oil.
- Insulator support to one of the capacitor cans was damaged.
- One HV terminal of the Unbalance CT is loose.
- Un-availability of reactive plant to SO.

Damaged support insulator



### ACTIONS

- Investigations continuing on the root cause.
- Full testing on C14 to C16 banks.
- The C15 CT will be repaired or replaced.
- Engineering review of other similar capacitor banks.



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