



Safety Advice 03-2011 (May)(NZ)



TRANSPOWER

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FIRST ALERT

110kV CONDUCTOR CONTACTING DISTRIBUTION LIVE 11kV CIRCUIT DURING RE-CONDUCTORING RESULT PROCESS LOSS & DISTRIBUTION LINE DAMAGE

EVENT

110kV transmission line, the conductor being removed made contact with a live Distribution Network 11kV circuit below. The contact occurred when the conductor pulling was stopped, resulting in “bouncing” of the conductor and momentary increase in conductor sag above the 11kV line.

The required mechanical protection to the 11kV circuit had not been installed due to a communication and process failure. There were no injuries or electric shock to personnel on site. Effective earthing and equipotential zones at the wiring sites proved effective in protecting personnel against the transferred potentials.

IMMEDIATE ACTIONS

- Work Ceased
- Determined damage
- Review work process
- Additional barrier cover ups applied to 11kV Distribution Circuit
- Mechanical hurdle erected to protect the 11kV line.
- Repairs made to damaged conductors
- All other crossings inspected to ensure the installed protection was in place and adequate



For more information
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