

Squirrel Full Tension Compression Sleeve Failure

Location; Aurora Dunedin and Central Networks

Date of Issue: 6th July 2016 2016

Severity: Medium

Date of Incident: 1 June 2016 12:30hrs

Incident Description and Details:

On two occasions in recent weeks a newly installed Full Tension Compression Sleeve has failed and the high voltage squirrel conductor has fallen to the ground creating an unplanned outage and a potential risk to people and property.

Initial investigations looked at the field staff's compression tools and the size of the die required for the task' Utilux specifies a CDA4 die where most other brands specify a CDA3. Tools were checked and the correct die was being used.

After some further investigation it has been found that approximately 50% of the Utilux Squirrel Full Tension Sleeves have the incorrect bore diameter. The specification for the Squirrel sleeve bore should be 7.5mm, where some of the sleeves have had a measurement exceeding this by over 1mm. The squirrel conductor has a diameter measurement of 6.3mm. With the sleeve bore being this much greater than specification the compression tools and dies are not crimping the conductor as designed and the joint has the potential to fail. It was also found that a Namu and Mink Full Tension Sleeve failed on the Dunedin Network last year.

Utilux Full Tension Compression Sleeves should not be used until further notice



Immediate actions	Who	By when
Review Safety Notice with Field Staff	Supervisors	18 July 2016
All Utilux Full Tension Compression Sleeves are to be returned to the Delta Stores and will be checked for correct bore size. As per the below Table	Supervisors	Completed

Please share this Safety Alert with your colleagues

EVERYONE HOME SAFE. EVERY DAY.

Contact person/s:

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Delta Description		TransNet supplied Utilux joints			
S/N	Description	Part number	Description	OD	ID
948	Join Slv Tension Full Namu	2-0361415-3	JT/NAMU/GNAT Die CDA4	15.9	7.5
952	Join Slv Tension Full Squirrel	2-0361415-5	JT/SQUIRREL Die CDA4	15.9	7.5
951	Join Slv Tension Full Kutu	3-0361415-1	JT/KUTU Die CDA5	20.6	10.3
955	Join Slv Tension Full Ferret	3-0361415-2	JT/FERRET Die CDA5	20.6	10.3
		3-0361415-5	JT/RANGO/GRASSHOPPER Die CDA6	25.4	13
949	Join Slv Tension Full Mink	3-0361415-6	JT/MINK Die CDA6	25.4	13
1375	Join Slv Tension Full Weke	4-0361415-1	JT/WEKE Die CDA7	30.15	16.6
946	Join Slv Tension Full Dog	4-0361415-2	JT/DOG Die CDA7	30.15	16.6
953	Join Slv Tension Full Weta	4-0361415-3	JT/WETA Die CDA7	30.15	18