

# Construction News - Engineering

## Maclean Power 7/3.00 Deadend Failure

- > During a re stringing project, a new 7/3.00 Deadend failed allowing the conductor to fall to the ground during tensioning.
- > The conductor slipped through the deadend with approximately 1kN (102kg) of tension applied.
- > Following an investigation and testing, all Maclean 7/3.00 Deadends – Essential Energy Catalogue number 278010 with a manufacture date 10/17 have been deemed unsafe for use on the network.
- > All existing non-compliant stock in the Tier 1 warehouse stores (catalogue number 278010) have been quarantined.

### Background – what happened?

Moree crews were carrying out a reconductoring project using 7/3.00 AAAC conductor. Crews made off the termination at the end of the run and began straining from the other end. During tensioning, the conductors had just been lifted from the ground when a conductor slipped through the deadend falling to the ground. Staff were all clear and no injury was sustained.

Following the failure, the crew decided to remove the entire box of deadends and sourced alternate items to complete the task.

### Essential Energy's initial response

Following the logging of TotalSafe INC-52696, all Maclean manufactured 7/3.00 deadends with the date 10/17 were quarantined and the suspect boxes from Moree were sent to Port Macquarie for testing at the Quality Assurance Lab. Also the part drum that was used on the phase that failed was quarantined until the cause could be verified.

Inspection and testing identified the following issues:

- > The grit was easily displacing when rubbed.
- > The deadend began to allow the conductor to slip at 50% UTS well below the required 95%.

### What happens now?

Essential Energy Catalogue number 278010 – 7/3.00 deadends with a manufacture date of the 10/17 from Maclean Power shall be quarantined at all locations and returned to the appropriate warehouse or to the place of purchase for return to the supplier.

These items must not be fitted to the network and alternate items sourced for the project.

Essential Energy are conducting further testing to determine future actions, once testing is completed further advice will be provided if necessary.

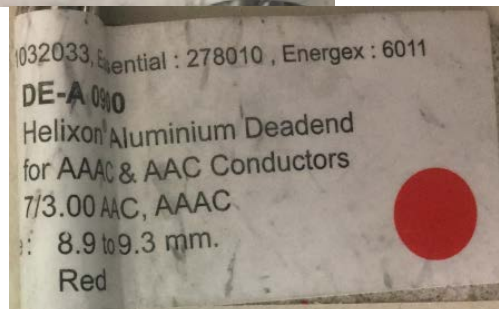
## What do you need to do?

Ensure that all stores are checked immediately for any of the non-compliant articles and any that are on hand returned to Essential Energy's Warehouse or for Accredited Service Providers to the place of purchase by COB 28 May 2018.



### Work Practice Tip

Always conduct a visual check of network equipment prior to installation.



More information is available on [Standards Online](#). If you have any questions, please contact: Brett Atkinson, on 02 6455 4116 or 0419 343 400.