TRANSPOWER

QUALITY ALERT!

Maxio Ref 178207
4th June 2025

Misinterpretation of Close Aerial Survey (CAS) Meter Ratings

ISSUE IDENTIFIED:

- While preparing for under clearance project work a Service Provider (SP) identified Close Aerial Survey (CAS) meter data in Maximo, carrying a rating of 20.
- SMP 02.17.001 states that a Condition Assessment of conductors with a rating of 20 is considered as being Replacement Criteria.
- This led to project work being halted due to safety concerns that the conductor was not in a suitable state to allow conductor go-karting work to commence.

CONTRIBUTING FACTORS:

- The Engineering Consultant (EC) that produced the Solution Study Report (SSR) for the project indicated that they were not aware of CAS meters.
- Consultation with other SP and ECs revealed that there was a wider lack of awareness of the existence of CAS meters.
- Maximo is used to capture both Close Aerial Survey (CAS) meters and the visual Condition Assessment (CA) meters. They use different scales so the ratings should not be interpreted in the same way – see image
- There is a lack of clarity from SP and ECs around their use and correct interpretation of the ratings.

DRC Ref #	Meter	Description	Lower Action Limit	Upper Action Limit	Last Reading
COSE	COSE_CONDUCTOR CONDITION	Conductor Condition	30.000		50
COSE	COSE_CLOSE_AERIAL_SURVEY	Close Aerial Survey			20

ACTIONS TO PREVENT REOCCURENCE:

- Update to provide further clarity:
  - SMP 02.98.801 Utilising Drones for Aerial Conductor Assessment on Overhead Lines
  - SMP 02.17.001 Conductor, Earthwire and Aerial cables Condition Assessment coding for white powder.
- Transpower will communicate and train SP and EC to provide further clarity on the difference between CAS and CA meter ratings.
- As necessary, Service Delivery Managers, SPs and ECs can contact Alan Lyne (details below) for clarity on the integrity of conductors when utilising CAS ratings in Maximo and/or when planning to place additional mechanical load on them, e.g. line go-karts.

LEARNINGS FROM THIS

- **The Service Provider acted correctly in halting the work until it was determined safe to proceed**
- **Time was lost due to the EC and SP being unaware of the need to interpret the CA meter differently to the CAS meter.**
- **Ongoing communication/re-training is required when there is a new initiative. All SP were trained 4 years ago when the ICON and DVDC projects were in place, but SPs have changed and that knowledge was lost.**

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