



SAFETY! ALERT!

9/3/2020



MHO in service equipment MAD encroachment update

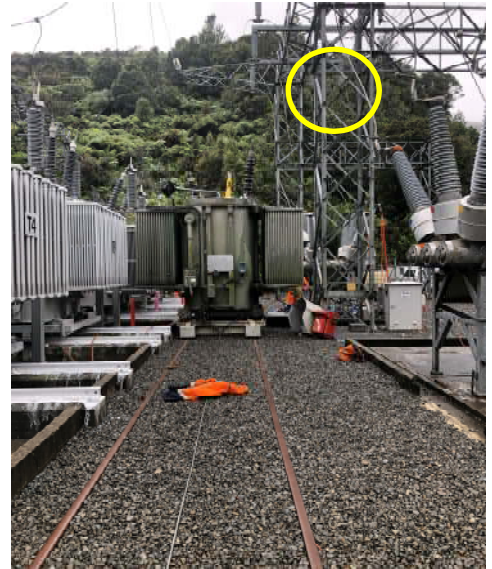
WHAT HAPPENED?

While work was being undertaken to move a larger relocatable Spare Transformer unit, the agreed Minimum Approach Distance (MAD) of 1.5M was encroached onto the in-service MHO-CB-102 supplying T4 (Yellow circle)

The investigation concluded this high-risk activity lacked suitable planning and task specific documentation to support the required work activities within the electrical corridor. This resulted in the encroachment of CB 102 (T4) not being a consideration in the planning and hazard management activities undertaken on the day. The team relied on historical transformer movements as the basis for establishing their job tasks and required mitigations.

The reduced electrical clearances (due to the transformers larger physical dimensions) was present on both sides of the traverser track electrical corridor, not just the northern side as identified by the team when planning and issuing the MAA documentation.

Essentially, the absence of an effective change management process and suitable task specific documentation led to this incident.



LEARNINGS AND ACTIONS

- Broadspectrum have developed an 'Equipment Movement Document Template'. This document provides the necessary steps and prompts to enable the job manager to robustly plan the equipment movement. The document supports the identification and management of the physical, electrical and environmental hazards associated with the task. This also provides the necessary handover documentation between the job manager and the team undertaking the works.
- Broadspectrum and Transpower are working through a 3D model survey of the MHO site, and trial for a future roll out to additional stations. This will enhance the physical and electrical hazard management activities in the substation environment.
- It is proposed to make this document a standardised template for all service providers, similar to the work authority and N security notices.
- Broadspectrum have reviewed their MAD process of identifying hazards in the electrical corridor. A MAA workshop has been delivered to maintenance staff, ensuring the process is understood and robust.
- TP & Broadspectrum to undertake a pre-emptive unit change, to release a smaller unit as the station 'spare'.

Name	Steve Williams
Position	Service Delivery Manager
Mobile	0212216091
Email	Steve.Williams@transpower.co.nz
Maximo Ref	121708
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