



FIRST ALERT

Date: 20/04/2018

Maximo Reference: 114334

Induction Shock whilst in MEWP

EVENT

During a task involving the removal of aluminium panels from a capacitor bank noise enclosure within a 220kV filterbank at Haywards substation, a member of the Broadspectrum maintenance team received an induction shock from the earthed bucket control panel of the Mobile Elevated Work Platform (MEWP) that he was operating.

This occurred as the operator went to lower the MEWP. The panel being removed from the capacitor stack was the closest to the nearest live point, an adjacent filterbank outside MAD and 6 metres away.

After the shock, team members lowered the MEWP using controls on the ground. The worker was taken to the hospital to be checked as a precautionary measure and was found to be ok.



It was identified that whilst waiting for the cover panels to be removed, the body of the team member (who was not in contact with any metallic parts of the MEWP) had become charged to AC voltage by capacitive coupling to the in-service Filterbank Busbar adjacent to the work location. With the team member at a different potential from the earthed and bonded MEWP, a shock occurred as he went to operate the controls in the bucket.

IMMEDIATE ACTIONS

- Work was stopped immediately
- As a precaution measure the worker was taken to the hospital to be checked
- A Five WHY's and Short form ICAM report was completed and then entered into MAXIMO
- Gloves shall be worn when operating a MEWP
- Further recommendations as to how to mitigate the effects of this type of induction are being investigated



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