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**STANDARDS BULLETIN No : S12-069**

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**SUBJECT:** Removal of earth bond across the flange plates of a two piece pole.

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**Purpose:**

Withdrawal of the requirement for an earth bond across the flange plates of a two piece pole.

**Reason:**

When the two piece standard flanged pole was approved for construction, there was no requirement for an earth bond between the two flanged plates in the original design. The earth bond was added later to address concerns with the conductivity through the two flange plates mating surfaces.

Tests have been undertaken on the effect the earth bond has across the flange plates. Ductor tests have confirmed that the earth bond across the flange plates had negligible effect on the resistance across the bolted flange arrangement.

Tests have confirmed that the earth bond does not improve the conductivity across the bolted flange joints and engineering investigation confirmed that earth bond is not a requirement for compliance with Australian Standards or ENA (Energy Network Association) work practices.

Hence, the requirement for an earth bond across bolted flange joints for two piece poles is withdrawn.

**Implementation:**

This change above is effective immediately on all distribution two piece pole constructions. The reference to earth bonds and their requirement to be fitted across bolted flange joints for distribution poles has been removed from PWC standard drawings. Existing standard drawings updated in this regards are:

S01-1-1-28 to S01-1-1-30: Two piece flanged pole material drawings