

Brendon Quinn

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Vector Ltd
Auckland
Attn Andre Botha by email Andre.Botha@vector.co.nz

Opinion- NZECP 34 and Termination Poles

On the 5th August 2006 you emailed me seeking clarification on the requirements for termination poles.

ECP34 applies to all situations where structures or personnel are close to electrical lines. Any structure must comply with either section 2 or section 3 and any personnel must comply with section 9.

Specifically for the two cases of termination poles you mentioned –

- a) Where the crossarm on a termination pole runs parallel to the building/structure with the conductors perpendicular to and away from the building.

In this case there are no conductors continuing on towards the structure so when considering an application for a close approach consent sag and wind deviation of the conductors are not relevant.

And

- b) Where the crossarm on a termination pole runs at an angle to the building/structure with the conductors running away from the building.

I take this case to be where the conductors are not perpendicular to the structure but rather either parallel to the structure or to run along the structure at an angle between 0° and 90°.

This situation is no different from a continuous line running past the structure except that it stops part way along the structure. Sag and wind deviation will affect the proximity of the conductors to the structure so modelling of sag and wind deviation would be required.

I hope this clarifies the situation.

Yours faithfully



Brendon Quinn