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Thermal Testing  
Services Pty Ltd.

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The power company we did this job for has had an intermittent fault with this power line for almost 12 months. It is becoming a very costly and contentious issue. They contacted us about a week ago and we were able to inspect the line about 2 days later.

The line is a 22kv line and it was raining when we completed the inspection. A lot of the insulators were displaying small amounts of corona but this particular insulator interested us because it is not normally the type to display any corona. (see pic 1)

When we inspected the insulator closer, we found that one of the tie wire that hold the line to the insulator was broken. (see pic 2)

This is not normally a serious issue but the broken wire was running down the side of the insulator, therefore reducing the insulating value from 6 sheds down to just one. The cause of there intermittent fault over 12 months has now been found in just 2 hours with the use of the corona camera

Regards



pic 1



Pic 2