



**Endeavour
Energy**

30 March 2011

The General Manager
Landcom
Level 2, 330 Church St
Parramatta NSW 2124

Attention: Luis Valarezo, Development Contractor

Dear Mr Valarezo

Magnetic Field Strengths at Nepean Transmission Substation

As a result of your enquiry, and further to the information package forwarded to you on 28 February 2011 giving a comprehensive background in this subject, magnetic field strengths (EMF) around the perimeter fence of the Nepean Transmission Substation were measured by specialist staff of Endeavour Energy on 14 March 2011. The results obtained are summarised in the table below, together with a correction that allows the measured values to be scaled up to represent the ultimate loading on the substation.

Location of Test	Measured Value (mG) ¹	Modified Value ² (mG)
NW perimeter	6	13
NE perimeter	26	56
SE perimeter	8	17
SW perimeter	26	56

Note 1: Units of measurement are milligauss

Note 2: The tests were conducted with a substation load of 80MVA at approximately 9.30 am 14 March 2011. The ultimate load on the substation is forecast to be 172MVA. The scaling factor used is therefore 2.15.

Conclusion

The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) is the body responsible for the guidelines and standards for EMF exposure and they currently specify a maximum exposure for the general public of 1000mG. However, ARPANSA is currently preparing a new Standard, which is expected to be published in 2011 which is expected to raise the value of exposure from the current 1000mG to 3000mG. It can be seen that the existing and projected EMF values at the perimeter of the Nepean substation are well within both these limits.

It is trusted this satisfies your enquiry.

Yours faithfully

Matthew Webb
Manager Strategic Asset Management