Reference Code

Date

Principal Contractor

Development name

Development Street Address

Suburb NSW 2XXX

Dear Sir or Madam,

**Re: EMF information required for proposed substation S.[number] known as [name] at [location], Plan No. [plan number]**

Electric and magnetic fields (EMF) are produced wherever electricity or electrical equipment is used, this includes the substation and associated electrical equipment proposed for [development name].

As part of the planning approval process for the above substation, [ASP company] is required to provide Ausgrid with documented evidence about the application of prudent avoidance in relation to EMF and the substation design.

Ausgrid’s policy on EMF involves designing and operating the electrical power system prudently within relevant health guidelines, consistent with that of the Energy Networks Association (ENA). In practical terms, prudent avoidance means giving consideration during the design phase to practicable low cost measures that can reduce EMF exposure. [ASP company] will adopt the following measures:

* Plan the substation layout with the low voltage (LV) side further away from receivers than the high voltage (HV) side. The HV side has a substantially smaller current than the LV side and therefore has lower associated EMF.
* Locate the incoming and outgoing cables in areas away from receivers where practicable.
* Chose a conductor configuration which will reduce fields (eg triangular arrangements, compact construction, bundled cabling, multicore cables).
* Arrange the phases to minimise the magnetic field (eg balance the load on all phases, RWB/BWR).

However [ASP company] is restricted in adopting:

* XXX due to XXX
* an appropriate layout for adjacent apartments which minimises EMF exposure and suggests locating bedrooms and lounge rooms away from the substation, instead locating bathrooms, laundry, storage rooms and entrances closer to the substation.

In this regard, please advise in writing what practical low cost measures have been considered. Examples of measures which have fall within the scope of prudent avoidance include:

* Utilising existing access restrictions to increase the distance between the source and the receiver (eg property line, fencing, landscaping)?
* Locating the substation further from receivers or in areas less frequented (eg adjacent to car parks, walkways, store rooms, switch rooms, amenity areas or fire stairs).?
* Locating associated equipment such as switchrooms and incoming and outgoing feeders further from receivers.

Could you also please confirm that the issue of EMF in relation to the attached building design (showing the substation footprint) was discussed with the land owner, who is aware of the location of the substation and potential community concerns?

Additional information on EMF can be found on Ausgrid’s website ([www.ausgrid.com](http://www.ausgrid.com)) and the Commonwealth Government regulator's website ([www.ARPANSA.gov.au](http://www.ARPANSA.gov.au)).

Please provide a response by XXX. If you would like to discuss this matter, please contact me on [phone number].

Yours sincerely,

[Your name

Title

Company]