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REFERENCE: TRIM 2017/40/130

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Re: SSD 6471 - Art Gallery Road, Sydney - Art Gallery of NSW Expansion Project - Sydney Modern.

I refer to Sydney City Council development application SSD 6471.

This letter is Ausgrid's response under clause 45(2) of the State Environmental planning Policy (Infrastructure) 2007.

The assessment and evaluation of environmental impacts for a new development consent (or where a development consent is modified) is undertaken in accordance with requirements of Section 79C of the Environmental Planning and Assessment Act 1979. One of the obligations upon consent authorities, such as local councils, is to consider the suitability of the site for the development which can include a consideration of whether the proposal is compatible with the surrounding land uses and the existing environment.

In this regard, Ausgrid requires that due consideration be given to the compatibility of proposed development with existing Ausgrid infrastructure, particularly in relation to risks of electrocution, fire risks, Electric & Magnetic Fields (EMFs), noise, visual amenity and other matters that may impact on Ausgrid or the development.

With Regard to: Art Gallery of NSW Expansion Project - Sydney Modern at Art Gallery Road, Sydney

- Architectural Plans

Ausgrid requests further information regarding:-

- The exhaust point at the East side of the site adjacent to the zone substation
- The sea water heat exchange system running past the Zone substation

Supply of Electricity

It is recommended for the nominated electrical consultant/contractor to provide a preliminary enquiry to Ausgrid to obtain advice for the connection of the proposed development to the adjacent electricity network infrastructure. An assessment will be carried out based on the enquiry which may include whether or not:

- The existing network can support the expected electrical load of the development
- A substation may be required on-site, either a pad mount kiosk or chamber style and;
- site conditions or other issues that may impact on the method of supply.

Please direct the developer to Ausgrid's website, www.ausgrid.com.au about how to connect to Ausgrid's network.

Conduit Installation

The need for additional electricity conduits in the footway adjacent to the development will be assessed and documented in Ausgrid's Design Information, used to prepare the connection project design.

Proximity to Existing Network Assets

Underground Cables

There are existing underground electricity network assets in Art Gallery Rd, Lincoln Cres and also within the subject property.

Special care should also be taken to ensure that driveways and any other construction activities within the footpath area do not interfere with the existing cables in the footpath. Ausgrid cannot guarantee the depth of cables due to possible changes in ground levels from previous activities after the cables were installed. Hence it is recommended that the developer locate and record the depth of all known underground services prior to any excavation in the area.

Safework Australia – Excavation Code of Practice, and Ausgrid's Network Standard NS156 outlines the minimum requirements for working around Ausgrid's underground cables.

Distribution Substation

There are existing electricity substation assets at Lincoln Cres in the Eastern Corner of the site (S1393).

The substation ventilation openings, including substation duct openings and louvered panels, must be separated from building air intake and exhaust openings, natural ventilation openings and boundaries of adjacent allotments, by separation distances which meet the requirements of all relevant authorities, building regulations, BCA and Australian Standards including AS 1668.2: The use of ventilation and air-conditioning in buildings - Mechanical ventilation in buildings.

In addition to above, Ausgrid requires the substation ventilation openings, including duct openings and louvered panels, to be separated from building ventilation system air intake and exhaust openings, including those on buildings on adjacent allotments, by not less than 6 metres.

Exterior parts of buildings within 3 metres in any direction from substation ventilation openings, including duct openings and louvered panels, must have a fire rating level (FRL) of not less than 180/180/180 where the substation contains oil-filled equipment.

The development must comply with both the Reference Levels and the precautionary requirements of the Draft Radiation Protection Standard for Exposure Limits to Electric and Magnetic Fields 0 Hz – 3 kHz (ARPANSA, 2006).

For further details on fire segregation requirements refer to Ausgrid's Network Standard 113.

Existing Ausgrid easements, leases and/or right of ways must be maintained at all times to ensure 24 hour access. No temporary or permanent alterations to this property tenure can occur without written approval from Ausgrid.

For further details refer to Ausgrid's Network Standard 143.

33kV Zone Substation

There is a major substation facility immediately adjacent to the Eastern side of the subject site (as noted on the developers plans).

Ausgrid requests that further information is provided regarding the proposed Exhaust System near to the Zone substation to ensure that the exhaust will not impact adversely impact on zone substation.

Ausgrid also request further details about the proposed installation of the sea water exchange pipes. These pipes are proposed to cross the South side of the zone substation. There are several Transmission cables which enter the zone substation at this location. These cables may be subjected to derating as a result of any in ground heating sources.

Please do not hesitate to contact Adam Bradford on Ph: (02) 93946627 (please quote our ref: Trim 2017/40/130) should you require any further information.

Regards, Adam

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