

9 August, 2024

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EMAIL: [development@ausgrid.com.au](mailto:development@ausgrid.com.au)

ATT: Jeffrey Peng

Dear Jeffrey,

In reference to NEXTDC S5 Data Centre and Innovation Hub (SSD-63168959).

Ausgrid would like to thank you for seeking input and feedback regarding the exhibition. Ausgrid has undertaken a review of the exhibition documents and associated information in relation to potential impacts or interfaces with Ausgrid's electricity infrastructure.

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.

We encourage the proponent to continue to discuss their requirements directly with Ausgrid as needed.

**Ausgrid Underground Cables are in the vicinity of the development.**

Special care should be taken to ensure that driveways and any other construction activities do not interfere with existing underground cables located in the footpath or adjacent roadways along King Street.

It is recommended that the developer locate and record the depth of all known underground services prior to any excavation in the area. Information regarding the position of cables along footpaths and roadways can be obtained by contacting Before You Dig Australia (BYDA).

In addition to BYDA the proponent should refer to the following documents to support safety in design and construction:

SafeWork Australia – Excavation Code of Practice.

Ausgrid's Network Standard NS156 which outlines the minimum requirements for working around Ausgrid's underground cables.

The following points should also be taken into consideration.

Ausgrid cannot guarantee the depth of cables due to possible changes in ground levels from previous activities after the cables were installed.

Should ground anchors be required in the vicinity of Ausgrid underground cables, the anchors must not be installed within 300mm of any cable, and the anchors must not pass over the top of any cable.



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**Ausgrid Overhead Powerlines are in the vicinity of the development.**

Ausgrid has distribution overhead assets present along Bourke Rd.

The developer should refer to SafeWork NSW Document – Work Near Overhead Powerlines: Code of Practice. This document outlines the minimum separation requirements between electrical mains (overhead wires) and structures within the development site throughout the construction process.

It is a statutory requirement that these distances be maintained throughout the construction phase. Consideration should be given to the positioning and operating of cranes, scaffolding, and sufficient clearances from all types of vehicles that are expected to be entering and leaving the site.

The “as constructed” minimum clearances to the mains must also be maintained. These distances are outlined in the Ausgrid Network Standard, NS220 Overhead Design Manual. This document can be sourced from Ausgrid’s website at [www.ausgrid.com.au](http://www.ausgrid.com.au).

It is the responsibility of the developer to verify and maintain minimum clearances onsite. In the event where minimum safe clearances are not able to be met due to the design of the development, the Ausgrid mains may need to be relocated in this instance.

Any Ausgrid asset relocation works will be at the developer’s cost.

**Ausgrid Kiosk Substation in the vicinity of the development**

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.

Any portion of a building other than a BCA class 10a structure constructed from non-combustible materials, which is not sheltered by a non-ignitable blast-resisting barrier and is within 3 metres in any direction from the housing of a kiosk substation, is required to have a Fire Resistance Level (FRL) of not less than 120/120/120. Openable or fixed windows or glass blockwork or similar, irrespective of their fire rating, are not permitted within 3 metres in any direction from the housing of a kiosk substation, unless they are sheltered by a non-ignitable blast resisting barrier.

The development must comply with both the Reference Levels and the precautionary requirements of the ICNIRP Guidelines for Limiting Exposure to Time-varying Electric and Magnetic Fields (1 Hz – 100 kHz) (ICNIRP 2010).

For further details on fire segregation requirements refer to Ausgrid's Network Standard 141.

**New Driveways - Proximity to Existing Poles**

Proposed driveways shall be located to maintain a minimum clearance of 1.5m from the nearest face of the pole to any part of the driveway, including the layback, this is to allow room for future pole replacements. Ausgrid should be further consulted for any deviation to this distance.

**New or modified connection**

To apply to connect or modify a connection for a residential or commercial premises. Ausgrid recommends the proponent to engage an Accredited Service Provider and submit a connection application to Ausgrid as soon as practicable. Visit the Ausgrid website for further details;

<https://www.ausgrid.com.au/Connections/Get-connected>

**Easements**

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.

Additional information can be found in the Ausgrid Quick Reference Guide for Safety Clearances "Working Near Ausgrid Assets - Clearances".

This document can be found by visiting the following Ausgrid website:

[www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries](http://www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries)

Please do not hesitate to contact us for further information.

Regards,

A handwritten signature in black ink, appearing to read 'Jim Danks', written in a cursive style.

Jim Danks Project Officer - Asset Protection | Transmission Services