

Precautionary Approach Checklist – Site Selection & Infrastructure Design (Code Ref Section 4.1)



Issue Date	12 March 2025	Carrier	Telstra	Telstra Site Name Site No.	Daruka Woonooka Rd 367521	Address	30 Condowie Road, Daruka NSW 2340	RFNSA Number	2340074
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Description of Infrastructure	PROPOSED SCOPE OF WORKS: • Installation of a new 40 metre monopole with a triangular headframe (overall height 42.4m including the antennas). • Installation of Six (6) Telstra panel antennas (2533mm H x 350mm W x 209mm D) mounted on the triangular headframe. • Ancillary equipment associated with operation of the facility, including tower mounted amplifiers, remote radio units, cable trays, cabling, safe access methods, earthing, electrical works and air-conditioning equipment. • A new equipment shelter at the base of the facility surrounded by a compound security fence (10m x 10m).
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4.1 Application of Precautionary Approach to Site Selection		
Section No.	Industry Code C564:2020 Requirement For each site the Carrier must have regard to:	Comments on how the Carrier has had regard to each item.
4.1.2	For new sites, once the preferred option has been selected, the Carrier must make available to the public on request the summary of the sites considered and the reasons for the selection of the preferred option.	New facility: No suitable existing candidates were identified to achieve coverage requirements. Therefore, the installation of a new facility to achieve coverage objectives for the local area was required. The following candidates are a sample of those investigated (see Site Selection Summary). Candidate A was selected as the preferred site location because it meets the RF requirements for network coverage, and an agreement was met with the landowner. A - Primary Candidate: 30 Condowie Road, Daruka NSW 2340. B - Secondary Candidate: 110 Woonooka Road Tamworth NSW 2340 C - Third Candidate: 61 Woonooka Road Daruka NSW 2340 Reason for discounting secondary/third candidates: The secondary candidate did not meet coverage objectives. Landowner consent unable to be obtained for other candidates.
4.1.4 (a)	The reasonable service objectives of the carrier including: (i) The area the planned service must cover (ii) power levels needed to provide quality of service (iii) the amount of usage the planned service must handle	The coverage objectives of the site are to provide improved coverage and call quality to the surrounding areas. The primary performance/coverage objective is to provide coverage and capacity to Daruka and the surrounding area. The transmit power settings at this facility will be set to accomplish the desired coverage, capacity and call quality within the areas listed above. The Over the Air specifications provide for the ability for the facility to reduce the transmitting power to each user based on the radio environment.
4.1.4 (b)	Minimisation of EMR exposure to public	This facility is designed and will be installed in accordance with Telstra Site Design

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		Process Document 005486 to restrict public access to any areas that exceed the general public EME exposure limits. Further, EME exposure to the public from the proposed installation will be minimised by: • The site has been designed to restrict public access to any areas that exceed the general public exposure limits. • Dynamic / Adaptive Power Control is the network feature that automatically adjusts the power and hence minimises EME from both base station and handset; • Varying the base station transmit power to the minimal required level, minimises EME from the network; and Discontinuous transmission is a feature that reduces EME emissions by automatically switching the transmitter off when no speech or data is sent.
4.1.4 (c)	The likelihood of an area being a community sensitive location.	An assessment of community sensitive locations is built into the Telstra site deployment process. A feasibility report has been completed identifying and addressing environmental and community issues associated with the site and the proposal. The proposal is rated Amber on the traffic light model (TLM). It is a potentially a community sensitive location. The proposal is for the following technologies – 4G/5G Opposition to the telecommunications proposal by the community is possible as this is a predominantly rural-residential area and may be perceived as visually intrusive. Council is considered unlikely to object.
4.1.4 (d)	The objective of avoiding community sensitive locations	Telstra seeks to avoid community sensitive locations when siting new telecommunications facilities. In some circumstances, sites need to be located near community sensitive locations due to the area that Telstra is trying to provide service to. Quality mobile network services can only be maintained where base stations are located in close proximity to the user. In such instances, these locations are identified and relevant members of the community consulted with. On this occasion we have been able to locate a site that is not near a community sensitive location, for the following reasons, such as: • The entire target coverage area is within a residential area and is considered to

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		be near community sensitive locations. There are no community sensitive uses (as defined by the Code) within 500m of the proposed site
4.1.4 (e)	Relevant state and local government telecommunications planning policies	The proposal has been reviewed against relevant Federal, State and Local environmental planning instruments. Telecommunications Act 1997 - Schedule 3 Telecommunications Code of Practice State Planning Scheme, State/Local Planning Policies – NSW – Planning Scheme – Tamworth Regional Council. <u>Planning approval is required –</u> The proposal will require Planning Approval by the local government authority (LGA) in accordance with relevant planning and telecommunications policies.
4.1.4 (f)	The outcomes of consultation processes with Councils and Interested and Affected parties as set out in Section 6.7	<u>Planning approval is required –</u> For a proposal requiring Planning Approval, public notice/consultation will be undertaken, if required, by the LGA in accordance with the relevant state planning legislation.
4.1.4 (g)	The heritage significance (built, cultural and natural)	A review of the heritage significance both at and around the site has been undertaken as part of the site assessment process. This assessment has taken into account any built, cultural and natural factors that have been identified. The site is not within a Heritage Precinct or Conservation Area. The site itself is not individually Heritage listed.
4.1.4 (h)	The physical characteristics of the locality including elevation and terrain	Physical characteristics of this site have been considered during the evaluation of this facility. Factors considered included the terrain, site elevation and the height of surrounding obstacles. The site is considered to be appropriately located given the physical characteristics of the locality. Radio propagation analysis indicates that the proposal will meet the requirements for coverage from this facility.
4.1.4 (i)	The availability of land and public utilities	Consideration of available land and public utilities was undertaken as part of the site selection process. The required power supply availability has also been assessed and is considered to be adequate.
4.1.4 (j)	The availability of transmission to connect the radiocommunications infrastructure with the rest of the network, e.g. line of sight for microwave transmission	Fibre connection is available for transmission.
4.1.4 (k)	The radiofrequency interference the planned service may cause to other services	Radio propagation analysis has been used to select appropriate antenna tilts to meet the requirements for coverage from the facility, while minimising interference to existing and other networks. Due consideration has been given to control interference to other services, for example: Transmitters are designed to comply with ACMA regulations which minimise spurious interference to other services.

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		• Sufficient antenna separation is maintained at co-located sites. • Detailed radio frequency modelling has been performed to ensure that interference into other services.
4.1.4 (l)	The radiofrequency interference the planned service could experience at that location from other services or sources of radio emissions	Radio propagation analysis has been used to ensure the new equipment/facility can be integrated with the existing network with minimal interference.
4.1.4 (m)	Any obligations, and opportunities, to co-locate facilities	Telstra aims to co-locate and upgrade existing facilities wherever possible. Desktop studies of the area and actual site assessment have been undertaken. All existing infrastructure including public utilities were considered as part of this study. Co-location opportunities were investigated, no viable options were identified.
4.1.4 (n)	Cost factors	Telstra has undertaken preliminary costing of this facility and are of the opinion these costs have been approved and are within project parameters.