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Department of Planning and Environment  
Alpine Resorts Team – Regional Assessments  
P O Box 36  
**JINDABYNE** NSW 2627

**SAQ Consulting Pty Ltd**

ABN 76 864 757 592  
P O Box 50  
Clayfield QLD 4011

To whom it may concern:

**RE: Proposed upgrade of an existing Optus telecommunications facility  
Alpine Way, Thredbo NSW 2625  
Lot 863 DP 1128686  
STATEMENT OF ENVIRONMENTAL EFFECTS**

I advise **SAQ Consulting Pty Ltd** acts on behalf of **Optus Mobile Pty Ltd** ('Optus') in respect of this application. The proposal by Optus is to upgrade an existing telecommunications facility at Alpine Way, Thredbo – specifically, on lot 863 DP 1128686.

The upgrade consists of the replacement of existing panel antennas and the addition of 5G equipment (including three panel antennas) to the existing 9.7m-tall monopole facility, which is located about two kilometres to the north-west of Thredbo Village adjacent the Kosciuszko Radio Tower and Lift Station and Eagles Nest Restaurant.

The upgrade is such that it would normally comprise a 'low-impact' facility, not requiring planning approval. However, the existing facility is located within the Kosciuszko National Park and is therefore within an area of environmental significance.

Pursuant to clause 4.6 of the *State Environmental Planning Policy (Precincts – Regional) 2021*, the consent authority in this instance is the Minister for Planning.

The key relevant documents for consideration in the assessment of the application are:

- *National Parks and Wildlife Act 1974*
- *State Environmental Planning Policy (Transport and Infrastructure) 2021*
- *State Environmental Planning Policy (Precincts – Regional) 2021*

As the proposed upgrade utilises an existing Optus facility, there will be no additional external environmental issues created and therefore no relevant matters to be considered pursuant to the *Environmental Protection and Biodiversity Act 1999* (Cth) or the *Biodiversity Conservation Act 2016*.



This letter constitutes the Statement of Environmental Effects (pursuant to the requirements of the *Environmental Planning and Assessment Act 1979*) and accompanies the proposal plans and other lodgement information.

### **Need for the Facility**

The facility is needed to improve existing services, including the addition of 5G services, which will improve Optus network coverage and capacity to the area around the existing facility.

The location of the existing facility is just to the north of the Eagles Nest Restaurant, which is located at the end of the 'Top of Kosciuszko Chairlift' lift station on top of the mountain about two kilometres from Thredbo Village.

In winter the area is a ski resort with vast amount of snow terrain and winter activities. In summer, Thredbo is a hiking and summer sport and event destination. As such, there are, at various times throughout the year, very large numbers of visitors to the area and Thredbo is a key settlement for visitor experiences to Kosciuszko National Park.

The upgrade at this facility will provide a greatly enhanced customer experience in the alpine area surrounding Thredbo Village and assist in providing sufficient network capacity to cope with surges in demand.

In selecting a suitable location for a new facility, Optus has had regard to the 'precautionary principle' as set out in the Appendix A of the Industry Code C564:2020 for mobile phone base station deployment.

### **Subject Site**

The subject site is identified as Lot 863 on DP 1128686, Thredbo NSW 2625. The location is shown in Figure 1 below.

The existing facility is located approximately 20m north of the Eagles Nest Restaurant and lift station. A separate Telstra and Vodafone facility (each with a separate structure) are also located in this general area. As well as the existing monopole structure, Optus has an equipment room located in the restaurant complex.



**Figure 1:** Existing Optus facility

### **The Proposal**

The proposal is to essentially replace existing equipment and install a small amount of new equipment on the existing monopole facility.

The proposed upgrade involves the following works:

- Replacement of three existing panel antennas at the top of the existing monopole. Each replacement antenna measures 2.688m in length;
- Installation of three new (5G) panel antennas, each 1m in length, on new mounting poles at the top of the monopole;
- Installation of new base-station equipment within the existing equipment room in the restaurant complex; and
- Installation of new cabling and other ancillary items.



The existing access route will continue to be used and the facility operates on a continuously unmanned basis with only periodic visits required for maintenance purposes. No change to the supply of power and fibre to the existing Optus facility is required as part of the proposed upgrade.

Whilst not a relevant planning issue, it is worthy of note that the maximum levels of electromagnetic energy from the proposed facility as a result of the upgrade (including cumulative impacts from the Telstra and Vodafone facilities) is estimated at **28.43%** of the exposure limits mandated by the Commonwealth Government and the proposed infrastructure will be in compliance with the ACMA EME regulatory arrangements.

Specifically, the facility will comply with Australian government regulations in relation to emission of electromagnetic energy (EME), this specifically being Australian Standard Radiation Protection Series S-1 Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz published by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) in 2021.

A copy of the standard form EME report is **attached** for the Minister's information.

### **Assessment**

As noted above, the scope of the proposed upgrade would normally fall within the definition of a 'low-impact' facility, pursuant to the *Telecommunications (Low-Impact Facilities) Determination 2018 (Cth)* ('the Determination'). However, the location of the existing facility is within an 'area of environmental significance', as defined in section 2.5 of the Determination, and cannot therefore be a 'low-impact' facility.

#### National Parks and Wildlife Act 1974

Clause 153D of the *National Parks and Wildlife Act 1974* allows for the lease or licencing of telecommunications facilities. Such a tenure arrangement is already in place under this provision and as the proposal is for an upgrade of the existing facility, no changes to the tenure requirements are necessary.

#### State Environmental Planning Policy (Transport and Infrastructure) 2021

The *State Environmental Planning Policy (Transport and Infrastructure) 2021* ('the Transport and Infrastructure SEPP') is applicable to the facility and in particular Division 21, which deals specifically with telecommunications facilities. Division 21 sets out when development for the purposes of telecommunications may be carried out with or without consent.

The Transport and Infrastructure SEPP does not permit development without consent (either as exempt or complying development) where the land in question is within an environmentally sensitive area within the meaning of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

Clause 1.4(2)(a) of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008* lists land to which Chapter 4 of the *State Environmental Planning Policy (Precincts – Regional) 2021* applies is excluded from exempt and complying development provisions. Chapter 4 relates to the Kosciuszko National Park and alpine resorts, which includes the location of the existing Optus facility.



As such, the exempt and complying development provisions of the Transport and Infrastructure SEPP do not apply in this instance and consent is required.

Clause 2.142 of the Transport and Infrastructure SEPP sets out when development for the purposes of telecommunications with consent may occur. It states:

- (1) Development for the purposes of telecommunications facilities, other than development in section 2.140 or development that is exempt development under section 2.20 or 2.143, may be carried out by any person with consent on any land.*
- (2) Before determining a development application for development to which this section applies, the consent authority must take into consideration any guidelines concerning site selection, design, construction or operating principles for telecommunications facilities that are issued by the Secretary for the purposes of this section and published in the Gazette.*

The relevant guidelines are the *NSW Telecommunications Facilities Guideline including Broadband, July 2010*. The guideline contains four principles in relation to telecommunications facilities, which are listed below along with a comment on the compliance (or otherwise) of the proposed facility upgrade.

*Principle 1: A Telecommunications facility is to be designed and sited to minimise visual impact*

The proposed upgrade will occur at the existing Optus facility and involves the replacement of existing panel antennas with similarly dimensioned panel antennas with ostensibly the same appearance, as well as the installation of three new 5G antennas (each less than 1 metre in length). As such, the design of the proposed upgrade has minimised the additional visual impact.

*Principle 2: Telecommunications facilities should be co-located wherever practical*

The proposed upgrade will occur at the existing Optus facility and is therefore a collocated facility.

*Principle 3: Health standards for exposure to radio emissions will be met*

As demonstrated by the attached EME report, the proposed upgrade will comply with the relevant standard with respect to electromagnetic emissions.

*Principle 4: Minimise disturbance and risk, and maximise compliance*

The proposed upgrade will occur at the existing Optus facility, with no additional ground-based equipment. As such, disturbance and risk has been minimised.

Based on the above, the proposed upgrade is consistent with the outcomes sought by the Transport and Infrastructure SEPP.



State Environmental Planning Policy (Precincts – Regional) 2021

The location of the existing Optus facility and the proposed upgrade is within an area covered by the *State Environmental Planning Policy (Precincts – Regional) 2021* ('the Regional Precincts SEPP').

Chapter 4 of the Regional Precincts SEPP deals specifically with Kosciuszko National Park and alpine resorts, within which Thredbo Village and surrounds (collectively the Thredbo Alpine Resort) are included. The existing Optus facility at lot 863 is also within this defined area.

The Land Use Table for the Thredbo Alpine Resort lists a telecommunications facility as a land use permitted with consent. Clause 4.6 sets out the consent authority for the purposes of Chapter 4 as being the Minister.

The aim of Chapter 4 is *"to protect and enhance the natural environment of the alpine resorts...by ensuring development in those resorts is managed in a way that has regard to the principles of ecologically sustainable development."*

The objectives of Chapter 4 include a reference to *"the carrying out of a range of development in the alpine resorts (including the provision of services, facilities and infrastructure...) that do not result in adverse environmental, social and economic impacts.*

As such, given the proposed upgrade is located on an existing telecommunications facility, it achieves the intent of the both the aim and objectives of the SEPP in this regard.

Matters to be considered by the consent authority are listed at clause 4.12, which are set out and assessed below.

- (1) *In determining a development application that relates to land to which this Chapter applies, the consent authority must take into consideration any of the following matters that are of relevance to the proposed development—*
- a. *the aim and objectives of this Chapter, as set out in section 4.1*

As set out above, the proposed works associated with the upgrade are collocated on an existing Optus facility and involves both the replacement of existing equipment (panel antennas) and the installation three new 5G antennas to the existing monopole, resulting in minimal addition visual impact or other disturbance. As such, the aim and objectives set out in section 4.1 are achieved.

- b. *the extent to which the development will achieve an appropriate balance between the conservation of the natural environment and any measures to mitigate environmental hazards (including geotechnical hazards, bush fires and flooding)*

The existing facility is already positioned in a cleared area with existing access arrangement. As such there is no impact on the natural environment and no additional measures to mitigate environmental hazards are required.

- c. *having regard to the nature and scale of the development proposed, the impacts of the development (including the cumulative impacts of development) on the following—*



- i. the capacity of existing transport to cater for peak days and the suitability of access to the alpine resorts to accommodate the development,*
- ii. the capacity of the reticulated effluent management system of the land to which this Chapter applies to cater for peak loads generated by the development,*
- iii. the capacity of existing waste disposal facilities or transfer facilities to cater for peak loads generated by the development,*
- iv. the capacity of any existing water supply to cater for peak loads generated by the development*

The proposed upgrade:

- will not result in any changes to access arrangements to the existing Optus facility, nor create any additional transport demand;
- is not connected to the effluent management system (nor is connection required);
- does not create any waste during its day-to-day operation; and
- does not require connection to water supply.

- d. any statement of environmental effects required to accompany the development application for the development*

As stated above, this letter constitutes the statement of environmental effects and in its preparation has had due regard for all relevant matters.

- e. if the consent authority is of the opinion that the development would significantly alter the character of the alpine resort—an analysis of the existing character of the site and immediate surroundings to assist in understanding how the development will relate to the alpine resort*

The proposed upgrade will not significantly alter the character of the Thredbo alpine resort or surrounds.

- f. the Geotechnical Policy—Kosciuszko Alpine Resorts (2003, Department of Infrastructure, Planning and Natural Resources) and any measures proposed to address any geotechnical issues arising in relation to the development*

The proposed upgrade is located at an existing Optus facility, consisting primarily of a 9.7m-tall monopole and equipment shelter within the nearby restaurant complex. As such, no additional measures with respect to geotechnical matters need to be considered.

- g. if earthworks or excavation works are proposed—any sedimentation and erosion control measures proposed to mitigate any adverse impacts associated with those works*

No earthworks are proposed or required.

- h. if stormwater drainage works are proposed—any measures proposed to mitigate any adverse impacts associated with those works*



No stormwater drainage works are proposed or required.

- i. any visual impact of the proposed development, particularly when viewed from the Main Range*

The proposed upgrade involves the replacement of three existing panel antennas with panel antennas of similar dimensions and appearance, as well as the installation of three new panel antennas (for 5G services, each less than 1m in length) to the headframe of the existing monopole. Additional base-station equipment will also be installed within the existing equipment room inside the adjacent restaurant complex. As such, there will be only a minor increase in the visual impact of the facility arising from the proposed upgrade, which in the context of the site is not material, nor likely to be noticed.

- j. the extent to which the development may be connected with a significant increase in activities, outside of the ski season, in the alpine resort in which the development is proposed to be carried out*

The proposed upgrade will better enable the existing facility to better cater for demand throughout the year and provide an improved level of service to alpine areas around Thredbo Village. However, the upgrade itself will not be the cause of any changes in the level of activity in the area.

- k. if the development involves the installation of ski lifting facilities and a development control plan does not apply to the alpine resort –*
  - i. the capacity of existing infrastructure facilities, and*
  - ii. any adverse impact of the development on access to, from or in the alpine resort*

The proposal does not involve the installation of a ski lifting facility.

- l. if the development is proposed to be carried out in Perisher Range Alpine Resort—*
  - i. the document entitled Perisher Range Resorts Master Plan, as current at the commencement of this Chapter, that is deposited in the head office of the Department, and*
  - ii. the document entitled Perisher Blue Ski Resort Ski Slope Master Plan, as current at the commencement of this Chapter, that is deposited in the head office of the Department*

The proposal is not within the Perisher Range Alpine Resort.

- m. if the development is proposed to be carried out on land in a riparian corridor—*
  - i. the long term management goals for riparian land, and*
  - ii. whether measures should be adopted in the carrying out of the development to assist in meeting those goals.*

The proposal is not within a riparian corridor.



As such, the proposed upgrade will have no material adverse impact on any of the relevant considerations and is therefore consistent with the outcomes sought by the Regional Precincts SEPP.

### **Other Relevant Matters**

#### *Vegetation Clearance*

The existing Optus facility is located in an already cleared area with existing access. As such, there is no additional impact on vegetation.

#### *Visual Impact*

As described above, the proposed upgrade consists of the replacement of existing panel antennas and the installation of three additional panel antennas on the existing monopole, with base-station equipment installed within the existing equipment room. As such, the increase in visual impact has been minimised.

#### *Environmental Impact*

As the proposed upgrade will occur on an existing facility, there will be:

- no impacts on flora or fauna
- no increase in bushfire risk
- no impacts on soil or water (including no increases in stormwater runoff)
- no excavation (and therefore no sediment or erosion issues arising)
- no increase in noise during normal operation
- no impact on air quality
- no generation of waste
- no additional traffic generation

As noted above, the proposed facility will, at all times, comply with the relevant electromagnetic emissions standards.

#### *Heritage*

As the proposed upgrade will occur at an existing Optus facility and will result in no material increase in visual impact, there are no heritage issues arising from the proposal.

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## Conclusion

The proposal is to upgrade an existing Optus telecommunications facility at Alpine Way, near the Kosciuszko radio tower and lift station, to enable the provision of improved telecommunications services (including 5G) to the alpine areas around Thredbo Village.

As the proposed upgrade will occur on the existing Optus monopole facility and involves the replacement of existing equipment and the installation of three new panel antennas on the existing monopole and new base-station equipment within the existing equipment room. As such, there are no materially adverse impacts arising, as detailed above.

The proposed upgrade will provide significant improvements to the performance of the Optus network in the Thredbo alpine area, particularly during peak times and as such, there is substantial public benefit arising from the proposal.

As set out above, the proposed upgrade is also consistent with the outcomes sought by the relevant parts of both the Transport and Infrastructure SEPP and Regional Precincts SEPP.

The development application therefore warrants planning approval.

Should additional information prior to the application's determination, please do not hesitate to contact the undersigned.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Mark Baade', is positioned below the text 'Yours sincerely'.

### **MARK BAADE**

B. Plan (Hons)

M: 0417 088 000

[mark@sagconsulting.com.au](mailto:mark@sagconsulting.com.au)

### ***Attachments:***

*Proposal plans*

*EME report*