Issued under the Environmental Planning and Assessment Act 1979

Approved Application No DA 22/11021



Sheet No 18 of 20



Project	Upgrade 5G (OO MOCN)	Client	Optus
Site Name	THREDBO	Site Number	S0200
	TOP OF KOSCIUSZKO CHAIRLIFT EAGLE NEST	Date	03/04/2025
Site Address	LOT 863 DP1128686 FRIDAY DRIVE THREDBO, NSW 2625	Revision	01

Reference Documentation:

- For Construction Optus Drawing Package Version 8 by Service Stream, Dated 03/04/2025
- For Construction STRUCTEL Drawings STD-40010 (Sheet 1), Issue 1, Dated 04/02/2022 & Existing Structel Drawings STD-21622 (Sheets 1& 2), Issue 3.
- Structural Analysis and Mount Certificate by Structel, Document No. 87840/P-021049/2, Dated 02/04/2025

Brief:

The requirement is to review the validity of the existing structural certificates issued by Structel dated 02/04/2025 (attached) for following change of loading/equipment as per SSMC For Construction drawings. This adequacy review has been undertaken by Service Stream utilizing the design and for construction documentation, Structel certificate and drawings, as referenced within this report.

Optus Equipment Installation as per Structel Certification

EL (m)	Description	Size (H x W x D) (mm)	Mass (Kg) per Unit	Qty
8.90	CommScope RRV4-65A-R6 Passive antenna	1499 x 498 x 197	45.5 approx.	3
8.90	CommScope E14V00P2100 850 Rej Filter	260 x 185 x 122	6.6	6
8.90	CommScope D08C99P0304 Combiner COM2c	340 x 168 x 81	6.5	1
7.34	ERICSSON AIR3278 Active antenna	621 x 371 x 185	25	3
8.90	CommScope E115R02P15 MHA3	260 x 170 x 140	8	1
8.90	ERICSSON Radio 4480	588 x 398 x 195	38.1	3
8.90	ERICSSON Radio 4480	588 x 398 x 154	32.5	3
8.90	ERICSSON Radio 4415	420 x 342 x 169	20.2	3
8.90	CommScope E14F10P71 COM19D	398 x 167 x 94	8.45	1
8.90	CommScope E78210147 MHA5	260 x 170 x 140	8	1
8.90	ANDREW RF TAILS	1/2"	-	64



Optus Equipment Installation in SSMC FC Package (Equipment Change)

EL (m)	Description	Size Mass (Kg) (H x W x D) (mm) per Unit		Qty
8.90	CommScope RRV4-65A-R6 Passive antenna	1499 x 498 x 197	45.5 approx.	3
8.90	CommScope E14V00P79 850 Rej Filter	292 x 219 x 124	9.2	3
8.90	ERICSSON Radio 6626	786 x 397 x 192	48.8	2
8.90	ERICSSON Radio 4490	552 x 397 x 146	24.5	3
8.90	ANDREW RF TAILS	1/,"	-	36

Assumptions

- This statement is conditional upon acceptance that all information stated in referenced are accurate and current at the time of being issued.
- Data supplied in this statement is in support of the recommendations only and is not suitable for any other use whatsoever.
- Original structural assessment and certification (by Structel) carried out based on relevant Australian standards and accepted engineering practice.

Exclusions

This statement does not include any other supporting structure that is not mentioned in this report.

Compliance

We have reviewed the loading of the proposed Optus equipment change and can confirm that the proposed Optus equipment total effective sail area/weight is equal or less than total ESA/weight of the equipment mentioned in Structel certificate, hence the Structel design and certificate is deemed to be still valid for this equipment change and it has been concluded that the relevant structures are still structurally adequate for the relevant loads.

This statement shall not be construed as relieving any other party of their responsibilities.

Signature

Arash Mozhgani – Principal Structural Engineer

B.E., M.Sc. (Structure), MIEAust CPEng NER 3937552, VIC PE0005753 (On behalf of Service Stream)





Department of Planning Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No DA 22/11021 2 April 2025

87840/P-021049/2

Granted on the 1 August 2025

Doc. Pages 2 + attachment

Thredbo (NSW) – Structural Analysisigned

Optus: Thredbo S0200

Abul Quashem

Service Stream

'Si**§**igned S Butler

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MOUNT ASSESSMENT SUMMARY

The existing mounting steelwork is as per Structel drawing STD-21622 Sheets 1 & 2, Issue 3. The proposed mounting steelwork is as per Structel drawing STD-40010 Sheet 1, Issue 1.

All mount steelwork is presumed to be in good condition, with all connections intact, effectively allowing consideration of full theoretical member capacity.

Structel certifies that the existing and proposed mounting steelwork and the connection to the structure as depicted on the above-mentioned drawings can safely accommodate the proposed loading arrangement specified, when assessed in accordance with above Australian Standards.

Note this certificate is limited to the adequacy of the support steelwork as detailed on the nominated drawings only. Structural capacity consideration of the structure is not covered in this certificate.

DESIGN CRITERIA

Site Address : Top of Kosciuszko Chairlift Eagle's Nest, Lot 863 DP1128686 Friday

Dr, Thredbo, NSW 2625

Geographic Co-ordinates : -36.49350° 148.28775°

Structure Height : 7.4m (nominal – AGL)

Basic Wind Speed : 45.0m/s (V_{500}) Topographic Multiplier : 1.0-1.32 (varies)

Wind Direction Multiplier : 1.0 (varies)
Terrain Category : 2.0 (varies)

Region : A3

Structure Importance : Level 2

Design Loads : Dead Loads and Wind Loads on antennas, ancillaries, mounting

steelwork and feeders.

Design Standards : AS/NZS 1170.2-2021, AS/NZS 1170.0-2002, AS 4100-2020

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ANTENNA & ANCILLARIES

Equipment Description	Quantity	Azimuth (°)	Elevation (m)
Ericsson AIR3278 Panel Antenna	3	70, 230, 340	7.34
Commscope RRV4-65A-R6 Panel Antenna	3	70, 230, 340	8.9
Ericsson Radio 4480	3	-	8.9
Ericsson Radio 4480	3	-	8.9
Ericsson Radio 4415	3	-	8.9
Commscope E14V00P21 850 Rej Filter	3	-	8.9
Commscope D08C99P03 Combiner	1	-	8.9
Commscope E14F10P71 Combiner	1	-	8.9
Commscope E14V00P21 850 Rej Filter	3	-	8.9
Kathrein 782 10147 MHA	1	-	8.9
Commscope E15R02P15 MHA5	1	-	8.9
Andrew 1/2" Tail	64	-	8.9

Should you have any questions regarding the above information, please do not hesitate to contact me on (03) 9633-1317.

Regards,

Tony Tang

Tony Tang

BE, MEngProjMgmt, MIEAust, CPEng, NER 2594850

<u>Attach</u>

Drawing - STD-40010, Issue 1

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