

## **Capricorn Space Submission: Improving the technical arrangements for AWLs in the 26 GHz and 28 GHz bands - IFC 04/2022**

Mr. Chris Worley  
Manager, Spectrum Planning Section  
Spectrum Planning and Engineering Branch  
Australian Communications & Media Authority

Dear Mr Worley

Capricorn Space operates an earth station facility within the Mingenew earth station protection zone provided by Embargo 49. Our customer payloads currently include earth exploration-satellite service (EESS) downlinks in X-band, however, it should be noted that EESS downlinks could evolve to higher frequencies like Ka-band and should be suitably considered.

Capricorn Space recognises, and has no issue with, the move of the following provisions out of Embargo 49 and into other ACMA policy documents, namely:

- Managing potential spectrum denial to future Ka-band fixed-satellite service (FSS) earth station transmitters in the bands 24.65-25.25 GHz and 27-27.5/28.1 GHz through RALI MS 44; and
- Protection of earth station receivers in the EESS and space research service (SRS) in the Mingenew area through Section 3.7 of RALI MS 46.

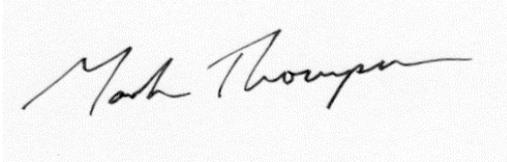
Capricorn Space supports the ACMA's explicit inclusions of Mingenew in RALI MS 44 and RALI MS 46. We commend the ACMA for continuing to support the development of space communications facilities in the general area of Mingenew and preserving the utility of the area, which is critical to Capricorn Space's operations.

To ensure clarity in Embargo 49, Capricorn Space requests the following addition to the final paragraph of the draft revised embargo:

“In [month] 2022, the frequency ranges 24.75-25.25 GHz and 25.5-29.5 GHz were removed from Embargo 49. These bands are now subject to the coordination procedures contained in RALI MS 44 and RALI MS 46.

It should be noted that the coordination procedures mentioned above maintain the intent of Embargo 49, which is to protect and preserve the utility of the Mingenew area for current and future earth stations.”

Yours sincerely



Mark Thompson  
Chief Engineer  
09 March 2022