

10<sup>th</sup> November 2023

Authorization & Evaluation Division  
 Federal Communications Commission Laboratory  
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**Subject:** Extended Frequencies Justification for Certification of Transmitter with FCC ID: OW4-407505.

Dear Sir/Madam:

This transmitter is designed to operate in the frequency ranges as described in the Exhibit 13a.

Barrett Communications Pty Ltd also requests that the FCC certify this product for the entire 1.5MHz to 30MHz band to meet the requirements of users authorized to operate between 1.5MHz and 2.0MHz as allowed by Title 47 CFR § 2.106.

This would be done to facilitate the requirements of agencies covered under NTIA spectrum usage. Government agencies complying with the NTIA instead of the FCC must purchase their equipment from private industry manufacturers who are governed under FCC rules. The conflict in spectrum allocation detracts from the options available to the government agencies for commercial off the shelf equipment which meets their required specifications such as the Department of Interiors. Please see frequency lists below.

The following table lists the CFR 47 Part 87 frequencies for a MF/HF Fixed station transceiver:

2.1735 - 2.1905 MHz	2.505 – 3.025 MHz	3.230 – 3.500 MHz	4.063 – 4.438 MHz
4.488 – 4.700 MHz	4.85 – 4.995 MHz	5.005 – 5.25 MHz	5.275 – 5.68 MHz
5.73 – 5.90 MHz	6.525 – 6.685 MHz	7.45 – 8.10 MHz	8.195 – 8.965 MHz
10.005 – 10.10 MHz	11.275 – 11.400 MHz	13.260 – 13.360 MHz	17.900 – 17.970 MHz
21.85 – 22.000 MHz			

The CFR 47 Part 87 "extended" frequencies are:

Frequency (MHz)	FCC Rule Part(s)	Frequency (MHz)	FCC Rule Part(s)	Frequency (MHz)	FCC Rule Part(s)
1.5 – 1.605	73, 90	1.605 – 1.705	73, 80, 90	1.705 – 1.8	80, 90
1.8 – 2.0	80, 97	2.0 – 2.065	80, 90	2.065 – 2.107	80
2.107 – 2.17	80, 90	2.17 – 2.1735	80	2.1905 - 2194	80
2194 - 2495	80, 90	2.495 - 2.505	Standard Frequency and Time signal	3.025 - 3.155	Aeronautical Mobile
3.155 - 3.230	80, 90	3.5-4.0	97	4.0 - 4.063	80
4.438 - 4.488	80, 90	4.7 - 4.75	Aeronautical Mobile	4.75 – 4.85	80, 90
4.995 - 5.005	Standard Frequency and Time signal	5.25 - 5.275	80, 90	5.68 - 5.73	Aeronautical Mobile
5.9 - 6.2	73	6.2 – 6.525	80	6.685 – 6.765	Aeronautical Mobile
6.765 – 7.0	18, 90	7.0 – 7.2	97	7.2 – 7.3	73, 97
7.3 - 7.45	73, 80, 90	8.1 - 8.195	80	8.965 – 9.04	Aeronautical Mobile
9.04 – 9.4	80, 90	9.4 – 9.9	73	9.9 – 9.995	90

9.995 – 10.005	Standard Frequency and Time signal	10.1 – 10.15	97	10.15 – 11.175	90
11.175 - 11.275	Aeronautical Mobile	11.4 – 11.6	90	11.6 – 12.1	73
12.1 – 12.23	90	12.23 – 13.2	80	13.2 – 13.26	Aeronautical Mobile
13.36 – 13.41	Radio Astronomy	13.41 – 13.57	90	13.57 – 13.87	73
13.87 – 14.0	90	14.0 – 14.35	97	14.35 – 14.99	90
14.99 – 15.01	Standard Frequency and Time signal	15.01 – 15.1	Aeronautical Mobile	15.1 – 15.8	73
15.8 – 16.36	90	16.36 – 17.41	80	17.41 – 17.48	90
17.48 – 17.9	73	17.97 – 18.03	Aeronautical Mobile	18.03 – 18.068	80, 90
18.068 – 18.168	97	18.168 – 18.78	80, 90	18.78 – 18.9	80
18.9 – 19.02	73	19.02 – 19.68	90	19.68 – 19.8	80
19.8 – 19.99	90	19.99 – 20.01	Standard Frequency and Time signal	20.01 – 21.0	90
21.0 – 21.45	97	21.45 – 21.85	73	22.0 – 22.855	80
22.855 – 23.2	90	23.2 – 23.35	Aeronautical Mobile	23.35 – 24.89	90
24.89 – 24.99	97	24.99 – 25.01	Standard Frequency and Time signal	25.01 – 25.07	90
25.07 – 25.21	80, 90	25.21 – 25.33	90	25.33 - 25.55	Fixed Mobile
25.55 – 25.67	Radio Astronomy	25.67 – 26.1	73, 74	26.1 - 26.175	74, 80
26.175 – 26.2	74	26.2 - 26.42	74, 90	26.42 - 26.48	74
26.48 – 26.95	Fixed Mobile	26.95 – 26.96	18	26.96 - 27.23	18, 95
27.23 - 27.41	18, 90, 95	27.41 - 27.54	90	27.54 – 28.0	Fixed Mobile
28.0 – 29.7	97	29.7 - 29.89	90	29.89 - 29.91	Fixed Mobile
29.91 - 30	Fixed				

Dated this 10<sup>th</sup> Day of November 2023




By:

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Signature

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