



Date: May 10, 2016

Applicant: Elbit Systems Land and C4I Ltd.

Product: Licensed Non-Broadcast Station Transmitter

Model: RCK-1000

FCC ID: YO5Micom-RM1KW

**To Whom It May Concern**  
**Subject: Justification Letter**

Dear Sir/Madam,

Elbit Systems Land and C<sup>4</sup>I Ltd. understands the following CFR 47 Part 87 MF/HF spectrum, and would like the FCC to certify the entire 1.6 MHz to 29.9999 MHz spectrum to include the CFR 47 Part 87 extended frequencies.

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.

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

2.182 MHZ	4.9475MHz	8.815 - 8.965 MHz
2.648 MHZ	5.036 MHZ	10.005 – 10.100 MHz
2.850 – 3.025 MHZ	5.1225 MHz	11.275 – 11.400 MHz
3.281 MHZ	5.1675 MHz	13.260 – 13.360 MHz
3.400 – 3.500 MHz	5.310 MHz	17.900 – 17.970 MHz
3.470 MHz	5.450 – 5.680 MHz	21.924 – 22.000 MHz
4.125 MHz	5.8875 MHZ	
4.550 MHz	6.525 – 6.685 MHz	
4.645 MHz	8.015 MHZ	
4.650 – 4.700 MHz	8.364 MHz	



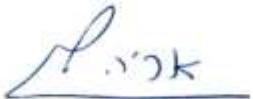
The CFR 47 Part 87 "extended" frequencies are:

1.6 – 1.8 MHZ	PART 90	14.0 – 14.35 MHz	Part 97
1.8 – 1.9 MHZ	PART 97	14.35 – 14.99 MHz	PART 90
1.9 – 2.0 MHZ	PART 90	14.99 – 15.01 MHz	Standard Frequency and Time signal
2.0 – 2.107 MHZ	PART 80	15.01 – 15.1 MHz	Aeronautical Mobile
2.107 – 2.17 MHZ	PART 90	15.1 – 15.8 MHz	Part 73
2.17 – 2.1735 MHZ	PART 80	15.8 – 16.36 MHz	PART 90
2.1735 – 2.1905 MHZ	PART 80 OR 87	16.36 – 17.41 MHz	Part 80
2.1905 – 2.194 MHZ	PART 80	17.41 – 17.48 MHz	PART 90
2.194 – 2.495 MHZ	PART 90	17.48 – 17.9 MHz	Part 73
2.495 – 2.505 MHz	Standard Frequency and Time signal	17.97 – 18.03 MHz	Aeronautical Mobile
2.505 – 2.85 MHz	PART 90	18.03 – 18.068 MHz	Part 90
3.025 – 3.155 MHz	Aeronautical Mobile	18.068 – 18.168 MHz	Part 97
3.155 – 3.23 MHz	PART 90	18.168 – 18.78 MHz	Part 90
3.23 – 3.4 MHz	PART 90	18.78 – 18.9 MHz	Part 80
4.438 – 4.65 MHz	PART 90	18.9 – 19.02 MHz	Part 73
4.75 – 4.85 MHz	PART 90	19.02 – 19.68 MHz	Part 90
5.005 – 5.06 MHz	PART 90	19.68 – 19.8 MHz	Part 80
5.06 – 5.45 MHz	PART 90	19.8 – 19.99 MHz	Part 90
5.68 – 5.73 MHz	Aeronautical Mobile	19.99 – 20.01 MHz	Standard Frequency and Time signal
5.73 – 5.9 MHz	PART 90	20.01 – 21.0 MHz	Part 90
5.9 – 6.2 MHz	Part 73	21.0 – 21.45 MHz	Part 97
6.2 – 6.525 MHz	Part 80	21.45 – 21.85 MHz	Part 73
6.685 – 6.765 MHz	Aeronautical Mobile	21.85 – 21.924 MHz	Part 90
6.765 – 7.0 MHz	PART 90	22.0 – 22.855 MHz	Part 80
7.1 – 7.3 MHz	Part 73 or 97	22.855 – 23.2 MHz	Part 90
7.3 – 7.4 MHz	PART 90	23.2 – 23.35 MHz	Aeronautical Mobile
7.4 – 8.1 MHz	PART 90	23.35 – 24.89 MHz	Part 90
8.1 – 8.195 MHz	Part 80	24.89 – 24.99 MHz	Part 97
8.195 – 8.815 MHz	Part 80 or 87	24.99 – 25.01 MHz	Standard Frequency and signal
8.965 – 9.04 MHz	Aeronautical Mobile	25.01 – 25.07 MHz	Part 90
9.04 – 9.4 MHz	PART 90	25.07 – 25.21 MHz	Part 90
9.4 – 9.9 MHz	Part 73	25.21 – 25.33 MHz	Part 90
9.9 – 9.995 MHz	PART 90	25.55 – 25.67 MHz	Radio Astronomy
9.995 – 10.005 MHz	Standard Frequency and signal	25.67 – 26.1 MHz	Part 73 or 74
10.1 – 10.15 MHz	Part 97	26.1 – 26.175 MHz	Part 74 or 80
10.15 – 11.175 MHz	PART 90	26.176 – 26.48 MHz	Part 74

The CFR 47 Part 87 "extended" frequencies are (continued) :

11.175 – 11.275 MHz	Aeronautical Mobile	26.48 – 26.95 MHz	Fixed Mobile
11.4 – 11.6 MHz	PART 90	26.95 – 26.96 MHz	Part 18
11.6 – 12.1 MHz	Part 73	26.96 – 27.23 MHz	Part 18 or 95
12.1 – 12.23 MHz	PART 90	27.23 – 27.41 MHz	Part 90
12.23 – 13.2 MHz	Part 80	27.41 – 27.54 MHz	Part 90
13.2 – 13.26 MHz	Aeronautical Mobile	27.54 – 28.0 MHz	Fixed Mobile
13.36 – 13.41 MHz	Radio Astronomy	28.0 – 29.7 MHz	Part 97
13.41 – 13.57 MHz	PART 90	29.7 – 29.8 MHz	Part 90
13.57 – 13.87 MHz	Part 73	29.8 – 30.0 MHz	Fixed Mobile
13.87 – 14.0 MHz	PART 90		

Sincerely,



Arie Shmueli  
Program manager  
Elbit Systems Land and C4I Ltd.

**Elbit Systems Land and C4I Ltd.** 2 Hamachshev St. Southern Industrial Zone, Netanya 42507, Israel  
Tel.: 972-9-8898880 Fax: 972-9-8898675 Email: arieyehoshua.shmueli@elbitsystems.com Website: [www.elbitsystems.com/landc4i](http://www.elbitsystems.com/landc4i)