

Frequency Information

Mesa (MARICOPA), AZ - NL 33-28-19; WL 111-43-28; MOBILE: Boeing Mesa Facility, Mesa, AZ, within 80 km, centered arou

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
53.5 MHz	FX	12K5F3E	56 W (ERP)	
53.5 MHz	MO	30K0F3E	56 W (ERP)	
55 MHz	FX	30K0F3E	56 W (ERP)	
55 MHz	MO	30K0F3E	56 W (ERP)	
59 MHz	FX	30K0F3E	56 W (ERP)	
59 MHz	MO	30K0F3E	56 W (ERP)	
67 MHz	FX	30K0F3E	56 W (ERP)	
67 MHz	MO	30K0F3E	56 W (ERP)	
71 MHz	FX	30K0F3E	56 W (ERP)	
71 MHz	MO	30K0F3E	56 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
83 MHz	FX	30K0F3E	56 W (ERP)	
83 MHz	MO	30K0F3E	56 W (ERP)	
87 MHz	FX	30K0F3E	56 W (ERP)	
87 MHz	MO	30K0F3E	56 W (ERP)	
122.7 MHz	FX	15K0A3E	50 W (ERP)	
122.7 MHz	MO	15K0A3E	50 W (ERP)	
122.725 MHz	FX	15K0A3E	50 W (ERP)	
122.725 MHz	MO	15K0A3E	50 W (ERP)	
123 MHz	FX	15K0A3E	50 W (ERP)	
123 MHz	MO	15K0A3E	50 W (ERP)	
137.6 MHz	FX	25K0A3E	20 W (ERP)	

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137.6 MHz	FX	25K0F3E	20 W (ERP)	
137.6 MHz	MO	25K0A3E 25K0F3E	20 W (ERP)	
138.175 MHz	FX	15K8F3E	18 W (ERP)	
138.175 MHz	MO	15K8F3E	18 W (ERP)	
138.175 MHz	FX	6K00A3E	10 W (ERP)	
138.175 MHz	MO	6K00A3E	10 W (ERP)	
139.475 MHz	FX	15K8F3E	18 W (ERP)	
139.475 MHz	MO	15K8F3E	18 W (ERP)	
139.475 MHz	FX	6K00A3E	10 W (ERP)	
139.475 MHz	MO	6K00A3E	10 W (ERP)	

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140 MHz	FX	15K8F3E	18 W (ERP)	
140 MHz	MO	15K8F3E	18 W (ERP)	
140 MHz	FX	6K00A3E	10 W (ERP)	
140 MHz	MO	6K00A3E	10 W (ERP)	
140.7 MHz	FX	15K8F3E	18 W (ERP)	
140.7 MHz	MO	15K8F3E	18 W (ERP)	
140.7 MHz	FX	6K00A3E	10 W (ERP)	
140.7 MHz	MO	6K00A3E	10 W (ERP)	
141.225 MHz	FX	15K8F3E	18 W (ERP)	
141.225 MHz	MO	15K8F3E	18 W (ERP)	

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141.225 MHz	FX	6K00A3E	10 W (ERP)	
141.225 MHz	MO	6K00A3E	10 W (ERP)	
141.4 MHz	FX	15K8F3E	18 W (ERP)	
141.4 MHz	MO	15K8F3E	18 W (ERP)	
141.4 MHz	FX	6K00A3E	10 W (ERP)	
141.4 MHz	MO	6K00A3E	10 W (ERP)	
149.825 MHz	FX	15K8F3E	18 W (ERP)	
149.825 MHz	MO	15K8F3E	18 W (ERP)	
149.825 MHz	FX	6K00A3E	10 W (ERP)	
149.825 MHz	MO	6K00A3E	10 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.15 MHz	FX	15K8F3E	18 W (ERP)	
150.15 MHz	MO	15K8F3E	18 W (ERP)	
150.15 MHz	FX	6K00A3E	10 W (ERP)	
150.15 MHz	MO	6K00A3E	10 W (ERP)	
150.35 MHz	FX	15K8F3E	18 W (ERP)	
150.35 MHz	MO	15K8F3E	18 W (ERP)	
150.35 MHz	FX	6K00A3E	10 W (ERP)	
150.35 MHz	MO	6K00A3E	10 W (ERP)	
155.5 MHz	MO	25K0A3E 25K0F3E	20 W (ERP)	
155.5 MHz	FX	25K0A3E 25K0F3E	20 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
170 MHz	FX	12K5A3E 12K5F3E	20 W (ERP)	
170 MHz	MO	12K5A3E 12K5F3E	20 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) Operation is subject to prior coordination and approval is completed with any co-channel Unicom operations in the area on frequencies 122.7 MHz, 123.0 MHz and 122.725 MHz.
- (4) Operation is NOT PERMITTED using the following frequencies: 121.75 MHz, 121.925 MHz, 125.125 MHz and 135.425 MHz.
- (5) The designated point-of-contact to terminate the system if interference occurs is Karen Hsu: (480) 891-8714 (Office) / (480) 235-8089 (Cell) and Chris Fleming: (714) 655-3290.
- (6) During transmission, aircraft shall not exceed the altitude 10,000 ft AGL.
- (7) The bandwidth for operating the frequency 170 MHz is not exceeded 12.5 kHz.
- (8) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator in the proposed area prior to operation in the proposed frequency bands.
- (9) Prior to commencing any operations in the 137.6 MHz frequency band, experimental licensee must notify licensee of ORBCOMM License Corp. (Call signs: E940534, S2103. Mr. Walter H. Sonnenfeldt, Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.com) operating in the 137-138 MHz, 148-150.05 MHz, 161-163 MHz, and 400.15-401 MHz frequency bands. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Special Conditions:

- (10) Prior to commencing any operations in the 137.6 MHz frequency band, experimental licensee must notify licensee of Swarm Technologies, Inc. (Call signs: E190490, S3041. Dr. Sophie Arlow, Phone Number: 425-753-3349, E-Mail: sophie@swarm.space) operating in the 137.0250-137.1750 MHz, 137.3275-137.3750 MHz, 137.4725-137.5350 MHz, 137.5850-137.6500 MHz, and 137.8125-138.0000 MHz (space-to-Earth); and 148.2500-148.5850 MHz, 148.6350-148.7500 MHz, and 149.9000-149.9500 MHz (Earth-to-space) frequency bands. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.