Multi-Use Radio Service (MURS)

In the Memorandum Opinion and Order and Second Report and Order (pdf) released May 23, 2002, the Commission updated the service rules regarding five Industrial/Business Pool VHF frequencies known in the PLMR community as the VHF "color dot" frequencies. These frequencies were moved from Part 90 to Part 95 and became a new Citizens Band Radio Service (CB) named the Multi-Use Radio Service (MURS). The Commission defines MURS as a private, two-way, short-distance voice or data communications service for personal or business activities of the general public.

Licensing

No licenses are issued for this service. An entity is authorized by rule to operate a MURS transmitter if it:

- is not a foreign government or a representative of a foreign government;
- uses the transmitter in accordance with 47 CFR. 95.1309;
- otherwise operates in accordance with the rules contained in Sections 95.1301-95.1309.

Operations

See a summary of MURS operations rules, or read more about MURS technical requirements.

Bandwidth

The frequencies available in the Multi-Use Radio Service are:

Frequencies	Authorized Bandwidth
151.820 MHz	11.25 KHz
151.880 MHz	11.25 KHz
151.940 MHz	11.25 KHz
154.570 MHz	20.0 KHz
154.600 MHz	20.0 KHz

Emissions

A MURS transmitter must transmit only emission types A1D, A2B, A2D, A3E, F2B, F1D, F2D, F3E, G3E. Emission types A3E, F3E and G3E include selective calling or tone-operated squelch tones to establish or continue voice communications. MURS transmitters are prohibited from transmitting in the continuous carrier mode. The authorized bandwidth for any emission type transmitted by a MURS transmitter is specified as follows:

- ALL A3E emissions are limited to 8 kHz.
- Emissions other than A3E on frequencies 151.820 MHz, 151.880 MHz, and 151.940 MHz are limited to 11.25 kHz.
- Emissions other than A3E on frequencies 154.570 and 154.600 MHz are limited to 20.0 kHz.
- MURS transmitters shall be designed to comply with the emission masks described in 47 CFR 95.635.

Equipment

Each Multi-Use Radio Service transmitter (a transmitter that operates or is intended to operate in the MURS) must be certificated in accordance with Part 95, Subpart J of the Commission's rules. Those radio units certificated as of November 12, 2002 need not be recertificated. No MURS unit, under any condition of modulation, shall exceed 2 Watts transmitter power output.