



Government  
of Canada

Department of Communications

**TRC - 9**

## **TELECOMMUNICATIONS REGULATION CIRCULAR**

**INFORMATION RELATING TO RESTRICTED COMMON  
CARRIER LAND MOBILE SERVICE (RCCMRS)  
IN THE 150.8 - 174.0 AND 450 - 470 MHz BAND**

**EFFECTIVE DATE: SEPTEMBER 22, 1972  
(REPLACES CIRCULAR SAE-9  
OF OCTOBER 17, 1967)**

**TELECOMMUNICATION REGULATORY SERVICE**

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INFORMATION RELATING TO RESTRICTED COMMON  
CARRIER LAND MOBILE RADIO SERVICE (RCCMRS)  
IN THE 150.8 - 174.0 AND 450 - 470 MHZ BAND

1. Purpose

The purpose of the Restricted Common Carrier Land Mobile Radio Service (RCCMRS) is to provide, through the use of common radio frequencies and base station facilities, a shared service of land mobile communications for industry and the public in general.

The restricted common carrier type of mobile radio service differs from the General Land Mobile Service, available from the communication common carrier providing a land telephone wire-line service, in that the RCCMRS may not interconnect with the general land telephone system. A restricted Common Carrier Land Mobile Radio Service (RCCMRS) is a mobile radio service provided by land stations open for restricted public correspondence with certain mobile stations to provide:

- (a) A Remote Despatch Class of Service to enable a subscriber to communicate directly with his vehicle utilizing a leased wire-line or radio link through a common base station; and
- (b) A message Relay Class of Service, to enable a subscriber to pass messages to and from his vehicles through the intermediary of an operator at or in control of the RCCMRS base station.

2. Eligibility for Licensing

- (a) Communication Common Carriers complying with the Radio Act and Regulations and eligible to provide a general land mobile service as an extension to their land telephone wire-line service.
- (b) Those applicants complying with the Radio Act and Regulations and who satisfy the Department concerning their technical and financial competence.

No limitation is to be placed on the number of RCCMRS licences issued in respect of any particular area to the extent that technical considerations, especially the availability of frequencies, make this possible.

3. Frequencies Available

<u>Base MHz</u>	<u>Mobile MHz</u>	<u>Base MHz</u>	<u>Mobile MHz</u>	<u>Base MHz</u>	<u>Mobile MHz</u>
163.470	167.130	164.400	168.420	451.350	456.3625
163.500	167.160	164.430	168.450	451.375	456.3875
163.680	167.460	164.460	168.480	451.400	456.4125
163.710	167.490	164.490	168.510	451.425	456.4375
163.740	167.520	164.520	168.540	451.450	456.4625
164.340	168.360	164.550	168.570	451.475	456.4875
164.370	168.390	164.580	168.600	451.500	456.5125

Subject to the provisions of circular SAE-8 (Information relating to "City-Wide" Common Carrier Service for Radio Paging) the above frequencies may also be used by RCCMRS licensees to provide a Common Carrier Service for Radio Paging on a shared secondary basis to the primary service.

4. Assignment of Frequencies

As a general rule, in areas where the band 150.8 - 174.0 MHz is congested, applicants are urged to consider the provision of service in the 450 - 470 MHz band.

Normally, separate frequencies are made available for RCCMRS operations but sharing of assigned frequencies with other similar users may be necessary where loading of the channel dictates such action be taken for efficient spectrum management (See paragraph 6 (b), (iii) ).

5. Despatch Stations

Proposals to employ a base station as an automatic repeater station controlled by subscribers using despatch stations (radio links) in lieu of leased wire lines, may be dealt with on a case-by-case basis subject to the following conditions:

- (a) That the despatch station may be authorized on the mobile frequency of the RCCMRS pair assigned to the system as a whole;
- (b) That the proposal shall not require the use of frequencies in excess of the pair assigned to the system as a whole.
- (c) That authority for the operation of the base station as a repeater is to be granted on the understanding that interference shall not be caused to other radio services (General Radio Regulations, Part II Section 26);
- (d) That the use of the frequency shall be shared with other RCCMRS subscribers and that the authority to use the frequencies involved is subject to withdrawal at the discretion of the Department (General Radio Regulations, Part II Section 22).

6. Renewal of licences

- (a) Where existing licensees are providing a satisfactory RCCMRS or undertake to do so, licences may be renewed as required.
- (b) Where existing licensees have not shown progressive development and reasonable channel loading the licensees shall be asked to show reason why they should not:
  - (i) Relinquish the assigned frequency channel;
  - (ii) Reduce the number of assigned frequency channels, if more than one is used; or
  - (iii) Share the assigned frequency channel(s) with other RCCMRS in the same general area.

7. Technical Requirements

<u>Frequency Band MHz</u>		<u>Radio Standards Specification or procedure</u>
150.8 - 174.0		RSS 126
410 - 420 450 - 470	** Broadband 36F3	RSP 103 using RSS 105 as a guide.
410 - 420 450 - 470	* Narrowband 16F3	RSS 105

\* On and after January 1, 1969 all new installations shall meet the narrowband requirements of RSS 105, and broadband equipment may be installed only as an expansion to wideband systems that were licensed prior to January 1, 1969.

\*\* Should the broadband system cause interference, the transmitter shall be adjusted to decrease the deviation to the extent that it will eliminate the interference or if the broadband system experiences interference the licensee shall accept the interference or improve the selectivity of the receiver.



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