



Government  
of Canada

Department of Communications

**TRC-40**

## **TELECOMMUNICATIONS REGULATION CIRCULAR**

**INFORMATION RELATING TO THE TYPE-APPROVAL AND  
LICENSING OF GENERAL RADIO SERVICE EQUIPMENT  
UNDER RADIO STANDARD SPECIFICATION 136, ISSUE 5**

**EFFECTIVE DATE - JANUARY 1, 1977**

**TELECOMMUNICATION REGULATORY SERVICE  
OPERATIONS BRANCH**

Telecommunication Regulatory Circulars are issued for the guidance of those engaged in telecommunications in Canada. The information contained in these Circulars is subject to change at any time and it is therefore suggested that interested persons consult the nearest Department of Communications office to ascertain whether or not this circular is current.

The General Radio Service (GRS) was introduced in Canada in 1962 to provide Canadians with an economic means of personal or private business radiotelephone communications. At that time, 22 channels were allocated on a shared basis to licensed operators in this Service. The acceptance of the GRS by the Canadian public has resulted in a growth of licensed radio stations unprecedented in the history of this country's radiocommunications. To accommodate the increasing number of users the Department plans, effective April 1, 1977, to expand the number of available channels to 40 and, in order to alleviate interference to television reception attributed to the operation of these stations, apply more stringent technical standards to the new equipment with up to 40 channel capability. Notice of intent by the Department to proceed in accordance with the foregoing was given as a proposal published in the Canada Gazette, Part I, on October 9, 1976. Comments received as a result of the proposal have been given consideration in arriving at the procedures to apply as detailed hereunder.

The Department's Radio Standard Specification 136, Issue 5 reflects the new standards to apply to equipment for it to be eligible for the licensing of 40 channel operation starting April 1, 1977. Submissions and equipment for testing under this Specification will be accepted effective January 1, 1977 and the granting of new type-approvals for equipment under Issue 4 only will cease on that date. Distributors whose products have been granted type-approval under the new specification and wish to market them prior to the April 1, 1977 date may do so by affixing a label to each unit which incorporates the statement "Licenseable under Issue 5 for 40 channels after April 1, 1977 and consequently fully compatible for licensing under Issue 4 for 22 channel operation until April 1, 1977".

New equipment, previously unlicensed and granted type-approval under Radio Standards Specification 136, Issue 4, will not be eligible for licensing purposes after June 30, 1977, except under a waiver number granted on the basis of representation made by distributors anticipating outstanding inventory stocks of equipment on that date. Such inventories will be considered for a waiver only if they resulted from orders placed or deliveries of stock received prior to the publication of the Department's expansion proposal in the Canada Gazette, Part I, October 9, 1976. Equipment granted a waiver will be required to be so identified by a plate or permanent sticker bearing the waiver number assigned. Documentation substantiating the request for a waiver should comprise of chassis serial number series together with the applicable copies of purchase orders, invoices, bills of lading and custom releases certified by officers or principals of the company involved. These submissions should be forwarded to the Director General, Telecommunication Regulatory Service, Department of Communications, 300 Slater Street, Ottawa, K1A 0C8, at the earliest opportunity. No waiver will be considered for equipment received at the Department Laboratory for type-approval after the date of the Canada Gazette Notice (October 9, 1976). Departmental district officers will not be issuing licences for such models after June 30, 1977.

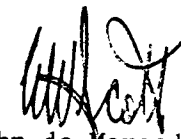
Equipment approved under Radio Standards Specification 136, Issue 4 that has been licensed prior to the cut-off-date will continue to be eligible for licensing purposes. The applicant for a licence however, will be required to provide the call sign under which it had been previously licensed.

Modified 23 channel equipment type-approved under Issue 4 of Radio Standard Specification 136 to 40 channel capability will continue to qualify for licensing if such equipment has been re-submitted for type-approval by the manufacturer or distributor and shown to meet the minimum technical requirements of Issue 5 of this Specification and the equipment model numbers have been changed to identify with the new type-approval number.

Those seeking type-approval of GRS equipment under Radio Standards Specification (RSS) 136, Issue 5, must satisfy the Department at their own expense that the equipment actually meets the requirement of the specification. This may be done in either of two ways. An engineering brief and a representative piece of GRS equipment may be submitted in accordance with Radio Standards Procedures (RSP) 100 and 104. Alternatively a representative piece of GRS equipment for which approval is being sought may be submitted in accordance with RSP 104. In each case the Department will return the GRS equipment after a decision has been made regarding its approval. This service is subject to a fee.

GRS licensees making use of the new 17 channels after April 1 should be aware of the fact that this spectrum is presently occupied by licensees in the private Commercial Land Mobile Service. Although encouraged to apply for new frequency assignments they have been given the option of remaining on their present assignments until they find it convenient or necessary to re-locate. Inter-service interference protection will not be provided by the Department. In the interim period GRS licensees using channel 23 and above are requested to co-operate where possible with existing licensees on these frequencies.

The Department will continue to monitor the growth of the General Radio Service and its impact as a source of interference to broadcasting and other radio services with a view to the application of more stringent technical standards should they become necessary. In addition it may be desirable in the future to gradually phase out the double sideband mode in favour of single sideband transmissions thus eventually doubling the number of channels available in this Service. Should such measures become necessary, purchasers of equipment are assured that there would be a reasonable amortization period to allow conventional AM double sideband equipment to obsolesce.

  
for John de Mercado,  
Director General,  
Telecommunication  
Regulatory Service.



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Information Relating to the Type Approval and licensing of General Radio Service Equipment under Radio Standard Specification 136, Issue 5.

ADDENDUM February 7, 1977

Radio Standards Specification 136 Issue 5 (Section 6.2) in dealing with minimum standards in respect of cabinet radiation prescribes that field strength measured on any spurious frequency in the range from the lowest I.F. frequency to 1000 MHz not exceed 5  $\mu$ V/M at 3 meters.

The Department is now prepared to accept submissions for type approval of 23 channel sets converted to 40 channel operation on the basis of a lower cabinet radiation standard of 25  $\mu$ V/M at 3 meters provided that the converted equipment was received or ordered prior to the publication of the Department's proposal to expand the General Radio Service in the Canada Gazette, Part I, October 9, 1976. Type Approval will be granted by waiver under this provision provided submissions include the necessary documentation and equipment is identified in accordance with the requirements previously outlined in TRC-40, January 1, 1977.

John de Mercado,  
Director General,  
Telecommunication  
Regulatory Service.



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ADDENDUM NO. 2

AUGUST 12, 1977

In the interest of providing additional communication channels to accommodate the greatly expanding number of licensees in the General Radio Service and at the same time alleviate to some degree the problems of radio and television interference attributed to the operation of equipment in this service, the Department published a proposal to expand the General Radio Service in the Canada Gazette, Part I of October 9th, 1976.

This document and a background paper proposed the allocation of an additional 17 channels for the use of GRS operators in Canada effective April 1, 1977, and the promulgation of a new Radio Standards Specification relating to GRS equipment effective as of January 1, 1977. A deadline date for new licences proposing the use of equipment approved under all previous GRS equipment specifications was proposed for July 1, 1977.

Comments received from distributors as a result of the proposal indicated that substantial financial loss would be incurred by the imposition of the July 1 deadline due to an anticipated large inventory of unsold equipment. To circumvent this problem the Department was pleased to invite applications for a waiver of equipment from the deadline date by distributors submitting documentation substantiating the receipt or order of equipment prior to publication of the expansion notice.

We are of the opinion that the majority of these inventories have by now been liquidated or reduced to negligible proportions and we consider it to be in the best interests of the General Radio Service therefore, to restrict the licensing of equipment effective January 1, 1978, to that which has been approved under Radio Standards Specification 136, ISSUE 5. All waivers granted to equipment approved under previous issues of this specification will be withdrawn on that date.

Equipment approved under all previous issues (1 to 4) licensed prior to January 1, 1978 will continue to qualify on the basis of "continued licensing" and operators should be aware that failure to renew their licence when due would disqualify their equipment from further licensing.

John de Mercado,  
Director General,  
Telecommunication  
Regulatory Service.