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ISSUE 1

## TELECOMMUNICATIONS REGULATION CIRCULAR

INFORMATION ON THE TRANSITION PROGRAMME TO CONVERT FROM THE PRESENT DOUBLE SIDEBAND OPERATION TO SINGLE SIDEBAND OPERATION FOR THOSE FREQUENCIES IN THE BANDS ALLOCATED EXCLUSIVELY TO THE AERONAUTICAL MOBILE (R) SERVICE BETWEEN 2850 AND 22000 kHz.

TELECOMMUNICATIONS REGULATION CIRCULARS ARE ISSUED FROM TIME TO TIME TO PROVIDE INFORMATION TO THOSE ENGAGED IN TELECOMMUNICATIONS IN CANADA. THE CONTENT OF THESE CIRCULARS IS SUBJECT TO CHANGE AT ANY TIME IN KEEPING WITH NEW DEVELOPMENTS.

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1<sup>re</sup> EDITION

## CIRCULAIRE DE LA RÉGLEMENTATION DES TÉLÉCOMMUNICATIONS

RENSEIGNEMENT SUR LE PROGRAMME DE TRANSITION PERMETTANT DE PASSER DE L'EXPLOITATION ACTUELLE À DOUBLE BANDE LATÉRALE À L'EXPLOITATION À BANDE LATÉRALE UNIQUE POUR LES FRÉQUENCES DANS LES BANDES ATTRIBUÉES EN EXCLUSIVITÉ AU SERVICE MOBILE AÉRONAUTIQUE (R) ENTRE 2850 ET 22000 kHz

LES CIRCULAIRES DE LA DIRECTION DE LA RÉGLEMENTATION DES TÉLÉCOMMUNICATIONS SONT PUBLIÉES EN VUE DE SERVIR DE GUIDE À CEUX QUI S'OCCUPENT DES TÉLÉCOMMUNICATIONS AU CANADA. LES RENSEIGNEMENTS CONTENUS DANS CES CIRCULAIRES PEUVENT ÊTRE MODIFIÉS EN TOUT TEMPS.

MISE EN VIGUEUR: 1<sup>er</sup> JUILLET, 1980

TELECOMMUNICATIONS  
REGULATION  
CIRCULAR

CIRCULAIRE DE LA  
RÉGLEMENTATION DES  
TÉLÉCOMMUNICATIONS

Telecommunications Regulation Circulars are intended for the guidance of those who are actively engaged in telecommunications in Canada.

Les circulaires de la Direction de la réglementation des télécommunications servent de guide à ceux qui s'occupent activement des télécommunications au Canada.

This circular provides information on the transition programme to convert from the present double sideband operation to single sideband operation for those frequencies in the bands allocated exclusively to the Aeronautical Mobile (R) Service between 2850 and 22 000 kHz in accordance with the Final Acts of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva, 1978.

Cette circulaire fournit des renseignements sur le programme de transition permettant de passer de l'exploitation actuelle à double bande latérale à l'exploitation à bande latérale unique pour les fréquences dans les bandes attribuées en exclusivité au Service mobile aéronautique (R) entre 2850 et 22 000 kHz conformément aux Actes finals de la Conférence administrative mondiale des radiocommunications du service mobile aéronautique (R) Genève, 1978.

Le Directeur général,  
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des télécommunications

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MANDATORY CHANGE FROM DSB TO SSB  
INTRODUCTION OF NEW FREQUENCY ALLOTMENT PLAN

(Aeronautical Mobile (R) Service)

Background

The Extraordinary Administrative Radio Conference, Geneva, 1966 amended the Radio Regulations of the International Telecommunication Union (ITU) to provide for the voluntary change over from the double sideband (DSB) class of emission to single sideband (SSB) classes of emission in the exclusive aeronautical mobile (R) service bands between 2850 and 17 970 kHz. The World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva 1978 amended the Regulations further to:

- a) make the change over from DSB to SSB mandatory;
- b) reduce the carrier frequency spacing from 7 and 8 kHz to 3 kHz;
- c) introduce a new plan for the allotment of frequencies;
- d) recommend the extension of the exclusive Aeronautical Mobile (R) Service bands to include the band 21 924 - 22 000 kHz (a change which was confirmed by the ITU World Administrative Radio Conference, 1979); and
- e) make consequential technical amendments.

Purpose of Changes

It is possible to make a significant increase in the number of assignable frequencies by reducing the present carrier frequency spacing from 7 and 8 kHz to 3 kHz throughout the eleven bands allocated to the Aeronautical Mobile (R) Service between 2850 and 22 000 kHz.

Equipment Approval

Equipment must be approved under departmental Radio Standards Procedure 103. Radio Standards Specification (RSS) 125 is to be used as a guide, along with the Supplement to RSS 125 for the Aeronautical Mobile (R) Service. The Supplement incorporates the 1978 World Administrative Radio Conference (Aeronautic) changes. The fees for equipment approvals are given in Telecommunications Regulation Circular TRC-49. Copies of these Specifications and Procedures may be obtained from the Department of Communications, 300 Slater Street, Ottawa K1A 0C8.

Time Frame for Implementing the Conversion from Double Sideband class of emission to Single Sideband classes of emission

- October 1, 1980 - 1) As of this date, the Department will
- (a) approve equipment that is capable only of operating in single sideband classes of emission, and
  - (b) evaluate equipment that is capable of both single sideband and double sideband classes of emission, but will approve it for single sideband classes of emission only.
- 2) The Department will not approve equipment capable only of the double sideband class of emission after this date.
- April 1, 1981 - No new stations will be licensed after this date to use the double sideband class of emission, but stations already licensed will continue to be eligible for licensing until 1 February 1983. Stations may, however, continue to use double sideband (A3) and single sideband (full carrier A3H) classes of emission on the emergency frequencies 3023 kHz and 5680 kHz.
- February 1, 1982 - After this date the class of emission for international operations will be single sideband in accordance with International Civil Aviation Organization Standards.
- February 1, 1983 - After this date the class of emission for domestic operations will be single sideband and changes in frequency assignments will have been completed by this date.