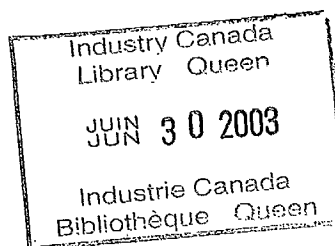


## **Modification of Microwave Spectrum Utilization Policy Provisions for the Band 7125-7725 MHz and the Release of the Standard Radio System Plan (SRSP-307.1, Issue 4)**

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**January 18, 1997**



**INDUSTRY CANADA**

**RADIOCOMMUNICATION ACT**

**NOTICE NO. DGTP-001-97/SMSE-001-97**

**MODIFICATION OF MICROWAVE SPECTRUM UTILIZATION  
POLICY PROVISIONS FOR THE BAND 7125-7725 MHz AND THE RELEASE OF  
THE STANDARD RADIO SYSTEM PLAN (SRSP-307.1, Issue 4)**

This notice announces modifications to the microwave spectrum policy provisions for the frequency band 7125-7725 MHz and the release of the corresponding Standard Radio System Plan (SRSP-307.1, Issue 4) which has been modified to reflect this revised policy.

After a comprehensive spectrum policy review and public consultation, Industry Canada released, on January 12, 1995, a new set of spectrum policies governing the use of the radio spectrum in the 1-20 GHz range by the fixed service. These policies can be found in the spectrum policy document entitled, *Revisions to Microwave Spectrum Utilization Policies in the Range of 1-20 GHz* (SP 1-20 GHz). The new policy provisions for the frequency band 7125-7725 MHz addressed the need for a broader range of applications and provided more flexibility for digital traffic carriage. It was also recognized in SP 1-20 GHz that further consultation with the incumbent users, the electric power utilities, was necessary before a definitive set policy provisions could be established.

The Department has further consulted with the Canadian Electrical Association (CEA) which represents the various power utilities across the country on their future spectrum requirements in the 7125-7725 MHz band for carrying critical operational traffic. It was clear that both the power utilities and other users of this frequency band would benefit from designating a small portion of spectrum for use by the power utilities, which would include the migration of existing microwave systems. Consequently, it was recommended that two 30 MHz paired channels be identified in the Standard Radio System Plan for this band for the exclusive use by the power utilities. In addition, the current restriction limiting high capacity systems to 103.68 Mbits/sec is no longer practicable as typical high capacity transmission rates are in the OC-3 (155 Mbits/sec) range.

The above changes were widely discussed within the Radio Relay Committee of the Radio Advisory Board of Canada in February-March 1996. The Radio Relay Committee, which comprises a cross section of equipment manufacturers and service providers agreed that these changes were beneficial and suggested that the Department revise the appropriate spectrum policies and technical standards accordingly.

Hence, having followed closely the discussion and merit of such changes, the Department is satisfied that sufficient consultation among the potentially affected parties on this matter has been done. Therefore, the Department is announcing the following spectrum policy provisions, which will replace the current provisions for the 7125-7725 MHz band in SP 1-20 GHz:

1. A full description of the relationship between bands and services, as contained in related international and domestic footnotes, can be found in the *Canadian Table of Frequency Allocations*.
2. Fixed Service Use: 7125-7250 MHz Low, Medium and High Capacity Systems  
7300-7725 MHz Low, Medium and High Capacity Systems
3. Fixed service assignments in this band may accommodate a variety of point-to-point fixed systems, including systems carrying critical telemetry, control and protection circuits to support power distribution grids of the electrical utilities.
4. Existing systems which comply to SRSP 307.1 (Issue 3) may continue to operate as standard until January 1, 1999. After this date these systems will be subject to the 2/5 year rule contained in the SP-Gen.
5. Two 30 MHz channel pairs will be identified in the Standard Radio System Plan (SRSP) for the exclusive use by electric utilities. Other channelling arrangements may overlap the two 30 MHz channel pairs, however, the overlapping channels should only be used where other channels are not available.
6. In moderately and highly congested areas the provisions of the Geographical Differences Policy guideline which apply in the 7125-7725 MHz band are as follows:
  - four frequency plans or frequency diversity will not be permitted except, on a case-by-case basis, where the system(s) is providing critical telemetry, control and protection circuits for the electric power distribution grid.
7. Low Capacity systems may carry less than 1 DS-1 per RF channel.

Copies of the documents referred to in this Notice, including a revised page for insertion in SP 1-20 GHz and SRSP-307.1 Issue 4 are available from the Communications Branch, Industry Canada, 235 Queen Street, Ottawa, Ontario K1A 0H5, (telephone (613) 947-7466) or from the offices of Industry Canada in Moncton, Montréal, Toronto, Winnipeg and Vancouver.

This gazette notice and associated documents are also available electronically on the Internet at:

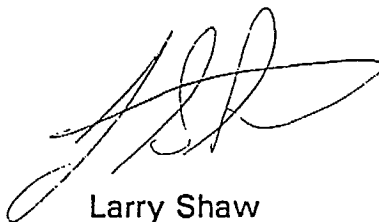
**World Wide Web (WWW)**

<http://info.ic.gc.ca/ic-data/telecom/gazette/dgtp-e.html>

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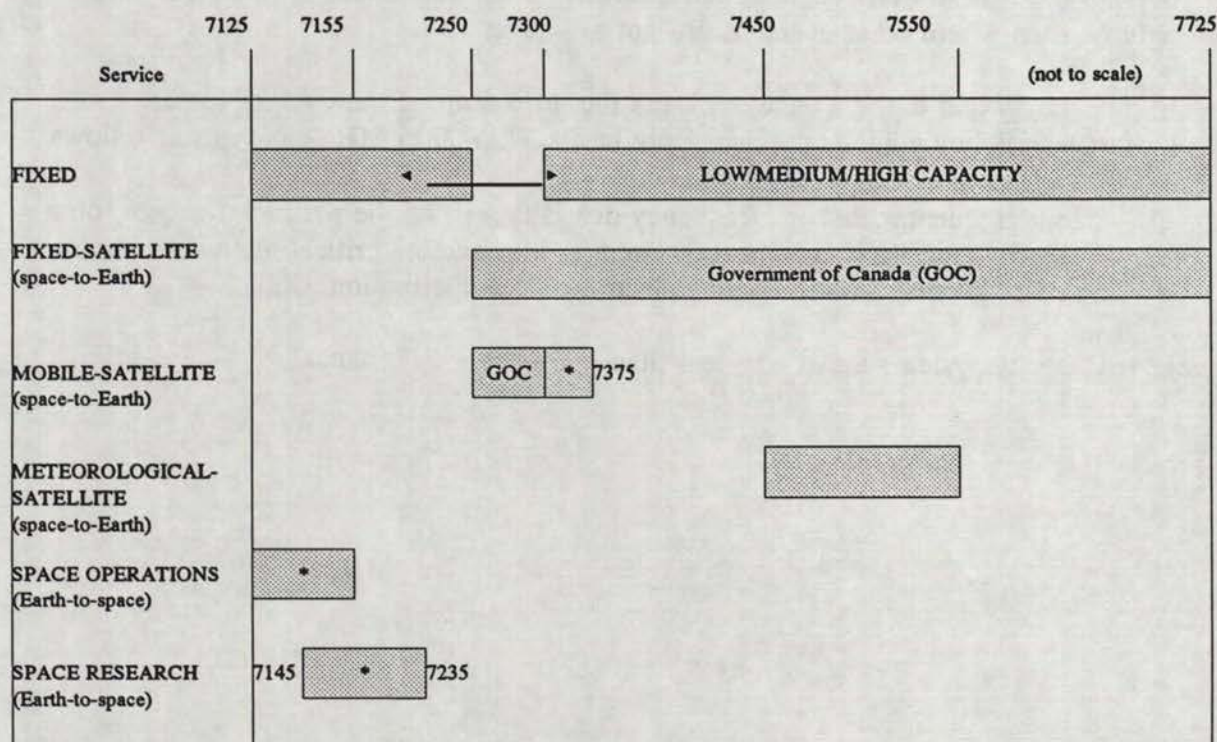
Dr. R. W. McCaughern  
Acting Director General  
Spectrum Engineering Branch



Larry Shaw  
Director General  
Telecommunications Policy Branch

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### 7125 - 7725 MHz



#### \*Article 14, ITU Radio Regulations

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