

ARRANGEMENT L

SHARING ARRANGEMENT BETWEEN THE DEPARTMENT OF INDUSTRY OF CANADA AND THE FEDERAL COMMUNICATIONS COMMISSION OF THE UNITED STATES OF AMERICA CONCERNING THE USE OF THE FREQUENCY BAND 4940 - 4990 MHz BY THE MOBILE AND FIXED SERVICES ALONG THE CANADA-UNITED STATES BORDER

The Department of Industry of Canada ("Industry Canada") and the Federal Communications Commission of the United States of America ("FCC"), hereinafter referred to as the "Agencies",

Have agreed to the following:

1. Scope

- 1.1 This Arrangement is done pursuant to the *Exchange of Notes (October 24, 1962) between the Government of Canada and the Government of the United States of America concerning the coordination and use of radio frequencies above thirty megacycles per second*, with annex, done at Ottawa October 24, 1962, as amended, and covers the sharing and coordination of frequency spectrum for the establishment and operation of mobile and fixed radio services in the band 4940-4990 MHz along the Canada-United States border.
- 1.2 This Arrangement is subject to review at any time at the request of either Agency, the U.S. Department of State or the Department of Foreign Affairs and International Trade of Canada.

2. Coordination Zone

- 2.1 The coordination zone is the area adjacent to the Canada-United States border extending a distance of 48 km within either country.

3. General Sharing Arrangement

- 3.1 The Agencies shall share the 4940-4990 MHz band on an equal basis along the border within the coordination zone. The Agencies shall authorize frequency assignments in accordance with the limits given in Annex A.
- 3.2 In exceptional circumstances, the power flux density ("pfd") limit specified in Annex A may be exceeded provided that the Agencies agree.
- 3.3 The Agencies agree that the authorizations which they provide to their respective licensees shall be subject to the condition that licensees are expected to take full advantage of advanced routing and interference mitigation techniques such as antenna directivity, polarization, dynamic frequency selection, shielding, site

selection and/or power control to facilitate the implementation and operation of, and compatibility between their systems.

- 3.4 The Agencies agree that radio astronomy stations in the 4950-4990 MHz band must be protected from harmful interference in accordance with International Telecommunication Union *Radio Regulations* 5.149.
- 3.5 The Agencies agree not to authorize aeronautical and maritime mobile stations within 160 km of the border area without the written consent of the other Agency. Operation of such stations may be subject to additional technical and operational limits.

4. Information Exchange

- 4.1 The Agencies shall exchange information including, but not limited to either: (1) licensee name(s); (2) licensed service areas; and (3) licensee point(s) of contact; or shall provide to one another alternative means to obtain that information.

Annex A to Arrangement L

Transmitter Power and Power Flux Density (“pfd”) Limits For General Sharing Arrangement

- A1.1 Stations operating in the band 4940-4990 MHz shall not exceed the transmitter power limits corresponding to the transmitter’s channel bandwidth given in Table A1 below. This provision applies only to stations employing an antenna of directional gain (remote and central stations are also included) of 9 dBi or less.

Table A1: Limits of Transmitter Power for Stations Operating in the 4940-4990 MHz Band

Channel Bandwidth (MHz)	Peak Transmitter Power (dBm)
1	20
5	27
10	30
15	32
20	33

- A1.2 Stations employing an antenna of directional gain greater than 9 dBi shall meet a pfd of -114 dBW/m^2 in any 1 MHz bandwidth at and beyond the border, calculated using best engineering practices.

