

STATEMENT OF INTENT OF THE FEDERAL COMMUNICATIONS COMMISSION OF THE UNITED STATES OF AMERICA AND THE DEPARTMENT OF INDUSTRY OF CANADA RELATED TO THE SHARING AND USE OF THE FREQUENCY BANDS 454.6625 – 454.9875 MHZ AND 459.6625 – 459.9875 MHZ FOR MOBILE AND FIXED SERVICES ALONG THE UNITED STATES – CANADA BORDER

Considering that the use of the band has evolved to include both new air-ground technologies and land mobile users since the understandings described in the exchange of letters between the Telecommunications Regulation Branch of the Department of Communications (DOC) and the Federal Communications Commission, dating from July 17, 1970 to June 24, 1971, pertaining to the coordination of the frequency plan for the ultra high frequency (UHF) air-ground radiotelephone service;

Considering that discussions have taken place between the Federal Communications Commission and the Department of Industry of Canada (Industry Canada) (hereafter the "Agencies") on the sharing and use of the frequency bands 454.6625 – 454.9875 MHz and 459.6625 – 459.9875 MHz for mobile and fixed services along the United States-Canada border;

Considering that there are existing Canadian and U.S. stations that need to be protected from harmful interference from new stations until an Arrangement governing the frequency bands 454.6625 – 454.9875 MHz and 459.6625 – 459.9875 MHz for use by mobile and fixed services is finalized;

The representatives of the Federal Communications Commission and Industry Canada have discussed their intentions with regard to the sharing and use of the frequency bands 454.6625 – 454.9875 MHz and 459.6625 – 459.9875 MHz for mobile and fixed services along the United States-Canada border;

Taking the above into account, the Federal Communications Commission and Industry Canada intend to administratively apply the operational provisions set out in this statement on an interim and non-binding basis, in order to facilitate sharing and coordination of frequency spectrum for air-ground, land mobile and fixed users:

1. Sharing Zone

1.1. The *sharing zone* (see Figure 1 in Appendix 1) is understood to be the area lying between and bounded by Lines *A* and *B*, as described below.

1.1.1. Line *A*: Begins at 71° 5' N, 154° 17' W running by great circle arc to the intersection of 59° 13' N, 151° W, thence by great circle arc to the intersection of 43° 33' N, 124° 14' W, thence by great circle arc to the intersection of 44° 38' N, 96° 38' W, thence by great circle arc to the intersection of 43° 18' N, 90° 9' W, thence by great circle arc to the intersection of 39° N, 88° 15' W, thence by great circle arc to the intersection of 36° 56' N, 82° 43' W, thence by great circle arc to the intersection of 39° 42' N, 74° 5' W, thence by great circle arc to the intersection of 38° N, 71° W, at which point it terminates; and

- 1.1.2. Line *B*: Begins at 70° 16' N, 127° 16' W running by great circle arc to the intersection of 63° 48' N, 130° 21' W, thence by great circle arc to the intersection of 58° 18' N, 122° 26' W, thence by great circle arc to the intersection of 54°N, 120°12' W, thence by great circle arc to the intersection of 52° 36' N, 85° 42' W, thence by great circle arc to the intersection of 48°44' N, 77° 30' W, thence by great circle arc to the intersection of 52°N, 68° 44' W, thence by great circle arc to the intersection of 50° 12' N, 63° W, thence by great circle arc to the intersection of 42° 20' N, 60° W, at which point it terminates.

2. Allotment and Use of the Bands in the Sharing Zone

- 2.1. Industry Canada and the Federal Communications Commission share the understanding that the United States has primary use of the frequency bands 454.6875 – 454.8375 MHz and 459.6875 – 459.8375 MHz.
- 2.2. Industry Canada and the Federal Communications Commission share the understanding that Canada has primary use of the frequency bands 454.8375 – 454.9875 MHz and 459.8375 – 459.9875 MHz.
- 2.3. Industry Canada and the Federal Communications Commission understand that the center frequencies 454.675 MHz (base) and 459.675 MHz (mobile), with an authorized channel bandwidth of 20 kHz, are available as a signaling/control channel pair for air-ground communications for each country's use in all areas. Usage of these channels in the *sharing zone* may be locally coordinated in accordance with the air-ground communication requirements of Canadian and U.S. air-ground licensees.

3. New Stations

- 3.1. Each Agency intends to authorize new stations in their country's allotted portions of the spectrum within the *sharing zone* consistent with the following parameters:
 - 3.1.1. Fixed, base or ground stations transmit in the band 454.6625-454.9875 MHz and mobile stations transmit in the band 459.6625-459.9875 MHz;
 - 3.1.2. The maximum effective radiated power (ERP) for base or ground stations is 100 watts and the ERP for mobile (including aircraft) stations is 25 watts;
 - 3.1.3. Stations listed in Appendices 2 and 3 should be protected from harmful interference from operations of fixed, base, ground and mobile (including aircraft) stations in the other country's territory;

- 3.1.4. Documentation issued by each Agency authorizing new stations within the frequency bands 454.6625 – 454.9875 MHz and 459.6625 – 459.9875 MHz should include a statement that such authorization is subject to protecting the existing stations listed in Appendix 2 or Appendix 3 (as applicable) from harmful interference until notified otherwise.
- 3.2. The Federal Communications Commission does not intend to authorize any new stations within the *sharing zone* utilizing spectrum for which the United States is not listed as primary in Section 2.1 until an Arrangement governing the frequency bands 454.6625 – 454.9875 MHz and 459.6625 – 459.9875 MHz for use by mobile and fixed services is finalized;
- 3.3. Industry Canada does not intend to authorize any new stations within the *sharing zone* utilizing spectrum for which Canada is not listed as primary in Section 2.2 until an Arrangement governing the frequency bands 454.6625 – 454.9875 MHz and 459.6625 – 459.9875 MHz for use by mobile and fixed services is finalized.

4. Existing Stations

- 4.1. The Agencies share the understanding that existing stations, authorized by the Agencies prior to 1 January 2013 for operation in their allotted portions of the spectrum within the *sharing zone*, may continue to operate at their existing parameters and that they would be granted protection from harmful interference. Until a sharing Arrangement has been concluded, modifications to these stations should be consistent with the provisions in Section 3.1.
- 4.2. The Agencies share the understanding that existing stations operating outside of each country's allotted portions of spectrum within the *sharing zone*, as listed in Appendices 2 and 3, may continue to operate at their indicated parameters. Modification to the authorized frequency of stations listed in Appendices 2 and 3 should only be made in accordance with Section 3. Other modifications to these stations that would increase their interference potential in the direction of United States-Canada border should not be considered.

5. Modification

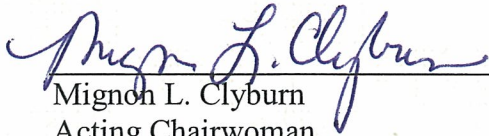
- 5.1. The Agencies may modify the provisions in this statement jointly in writing at any time.

6. Discontinuation

- 6.1. Either Agency should give to the other Agency at least 90 days written notice if it intends to discontinue operating in accordance with the administrative provisions outlined in this statement. It is intended that, even after discontinuance, existing

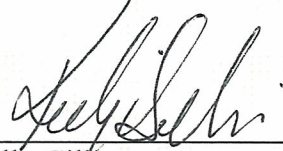
stations would continue operating at their current parameters in accordance with the authorizations granted by the Agencies.

FOR THE FEDERAL COMMUNICATIONS
COMMISSION



Mignon L. Clyburn
Acting Chairwoman
Federal Communications Commission
Washington, D.C., U.S.A.
August 20, 2013

FOR INDUSTRY CANADA



Kelly Gilfis
Senior Assistant Deputy Minister
Spectrum, Information Technologies and
Telecommunications
Industry Canada
August 20, 2013

Attachments

- Appendix 1 Sharing zone along the United States-Canada border
- Appendix 2 Existing Canadian stations in the frequency bands 454.6875 – 454.8375 MHz and 459.6875 – 459.8375 MHz
- Appendix 3 Existing U.S. stations in the frequency bands 454.8375 – 454.9875 MHz and 459.8375 – 454.9875 MHz

Appendix 1

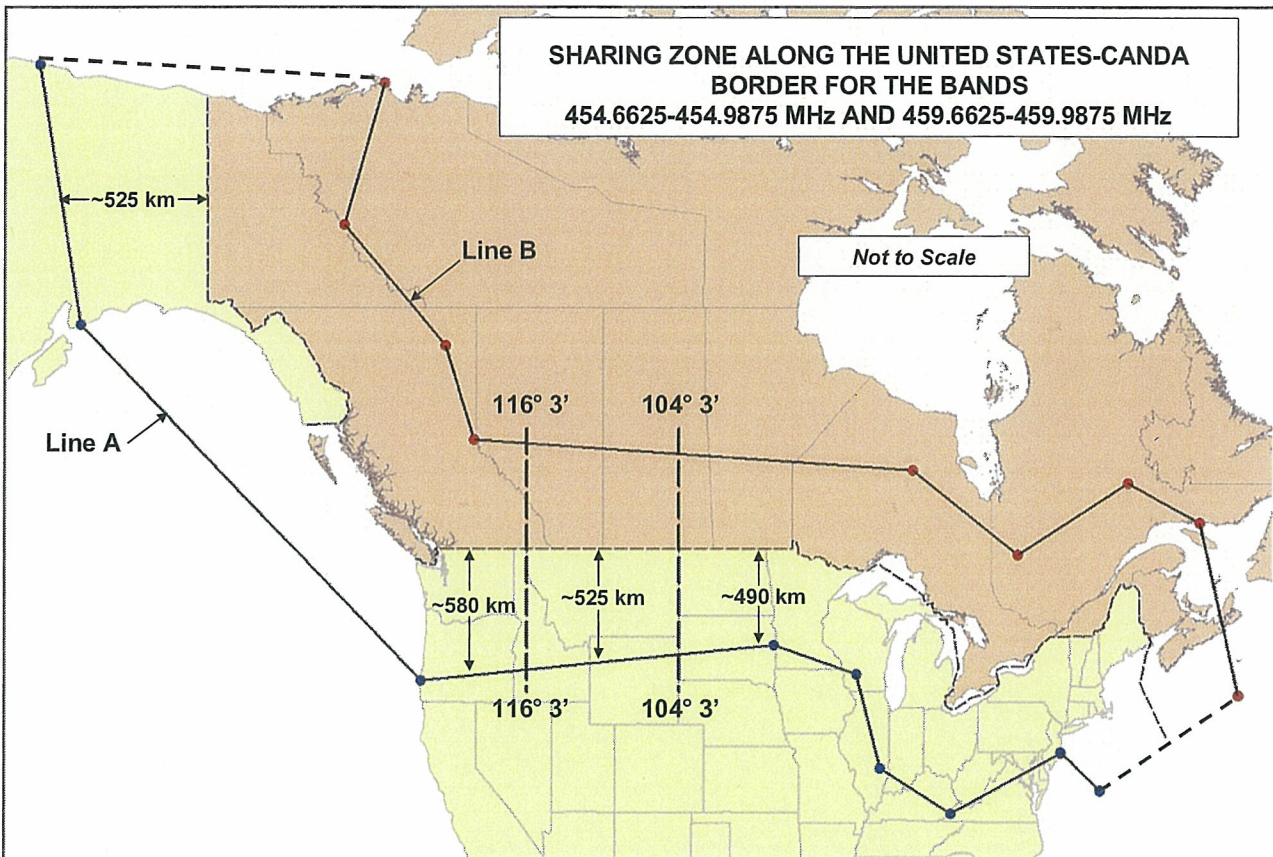


Figure 1: Sharing zone along the Canada-U.S. border.

The *sharing zone*, delineated by Lines A and B in Figure 1 above, can generally be viewed as 4 distinct areas, with approximate distances from the border as described below.

- Area I* The area adjacent to the United States-Canada border east of longitude 104° 3' W, and extending a distance of 490 km within either country.
- Area II* The area adjacent to the United States-Canada border between 104° 3' and 116° 3' W longitude and extending a distance of 525 km within either country.
- Area III* The area adjacent to the United States-Canada border west of longitude 116° 3' W, and extending a distance of 580 km within either country.
- Area IV* The area adjacent to the Alaska-British Columbia/Yukon Territory border and extending a distance of 525 km within either country.

Appendix 2
Existing Canadian stations in the frequency bands
454.6875 – 454.8375 MHz and 459.6875 – 459.8375 MHz (U.S. primary allotment)

Record ID	Call Sign	Licencee Name	Latitude (DDMMSS)	Longitude (DDMMSS)	TX Freq. (MHz)	RX Freq. (MHz)	ERP (dBW)	Antenna Height AGL (m)	Distance to Border (km)	Area ¹
63033935001	XNH959	Halterm Container Terminal Limited.	443742	633357	459.7625	459.7625	10.3	8	263	I
63025935001	VCC455	Yellow Cab Limited	443748	633718	454.7875	459.7875	19	49	259	I
53042254001	XLD303	Environnement Canada	452857	734729	454.8375	459.8375	5	18	53	I
53042284002	VXB277	Environnement Canada	452857	734727	459.8375	454.8375	5.8	25	53	I
53042285002	VXB278	Environnement Canada	452857	734727	459.8375	454.8375	5.8	25	53	I
53043798001	VXH223	Gestion 1800 McGill College Inc.	453009	733421	454.8375	459.8375	4.9	30	55	I
53047189001	CHZ427	Trt-Etgo Québec Inc.	462337	722251	454.6625	459.6625	3.3	4	148	I
53042213001	VAB326	Imtt-Quebec Inc	464947	711225	454.6625	459.6625	5	17	93	I
46034893002	VDB913	Goldcorp Canada Ltd.	523642	902210	454.7625	459.7625	6.9	30	479	I
22140629007	XNR988	Shell Canada Limited	533140	1132116	459.6750	454.6750	16.7	31	503	II
22140629008	XNR988	Shell Canada Limited	533140	1132116	459.7250	454.7250	16.7	31	503	II
22140629009	XNR988	Shell Canada Limited	533140	1132116	459.7750	454.7750	16.7	31	503	II
22140629010	XNR988	Shell Canada Limited	533140	1132116	459.8250	454.8250	16.7	31	503	II

¹ Areas are shown in details in Appendix 1.

Appendix 3
Existing U.S. stations in the frequency bands
454.8375 – 454.9875 MHz and 459.8375 – 454.9875 MHz (Canadian primary allotment)

License ID	Call Sign	Licencee Name	Latitude (DDMMSS)	Longitude (DDMMSS)	TX Freq. (MHz)	RX Freq. (MHz)	ERP (dBW)	Antenna Height AGL (m)	Distance to Border (km)	Area ²
1064454	KCC793	SkyTel Spectrum LLC	421725	713948	454.8500	459.8500	19.7	21.3	303	I
1064463	KGC405	Stratophone, LLC	385702	765306	454.9500	459.9500	19.5	20	463	I
1064464	KGC406	Stratophone, LLC	403711	800536	454.8750	459.8750	20	31.7	193	I
1064623	KNKK614	SkyTel Spectrum LLC	444420	684543	454.9500	459.9500	18.6	18.3	116	I
1065038	KNLV993	SkyTel Spectrum LLC	444732	934243	454.9250	459.9250	20	61	395	I
1065114	KQD306	SkyTel Spectrum LLC	422248	832317	454.9000	459.9000	20	18.3	26	I
1065115	KQD611	Stratophone, LLC	373528	810655	454.8500	459.8500	18.0	19.5	467	I
1065122	KSC881	SkyTel Spectrum LLC	420352	880821	454.9500	459.9500	20	15.2	412	I
1065123	KSJ612	SkyTel Spectrum LLC	382155	870120	454.9250	459.9250	20	36.6	514	I
1070999	WPOL835	SkyTel Spectrum LLC	421725	713948	454.9000	459.9000	19.7	21.3	303	I
1085289	WPQL892	Stratophone LLC	414126	711119	454.875	454.875	20	8.8	385	I

² Ibid.