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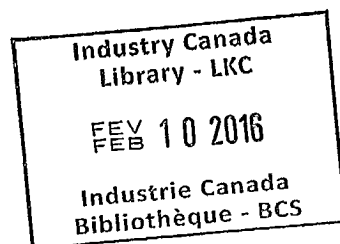
Decision on Repurposing the 600 MHz Band

Aussi disponible en français – SLPB-004-15

Canada 

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1. Intent

1. Through the release of this paper, Industry Canada hereby announces the decisions resulting from the consultation process undertaken in SLPB-005-14, Consultation on Repurposing the 600 MHz Band (hereinafter referred to as the consultation).
2. All comments and reply comments in response to the consultation are available on Industry Canada's Spectrum Management and Telecommunications website at <http://www.ic.gc.ca/spectrum>.
3. Comments and/or reply comments were received from the following broadcasters and broadcaster associations: Bell Mobility & Bell Media (Bell), Canadian Association of Broadcasters (CAB), Canadian Association of Community Television Users and Stations (CACTUS), Canadian Broadcasting Corporation (CBC) Radio-Canada, CHCO-TV, Chetwynd Communications Society Community Radio and Television, Eastlink, Friends of Canadian Broadcasting, ICTV Independent Community TV Toronto, National Association of Broadcasters (NAB), Quebecor Media Inc., RNC Media, Rogers Communications Inc. (Rogers), Shaw Communications Inc. (Shaw), Small Market Independent Television Stations (SMITS) Coalition, La Société de télédiffusion du Québec (STQ), Valemount Entertainment Society & VCTV and Wawatay Native Communications Society.
4. Comments and/or reply comments were received from the following Internet service providers (ISPs): ABC Communications, Advanced Interactive Inc., Beacon Broadband Inc., CanWISP, Cogeco Cable Inc. (Cogeco), Groupe-Acces Communications, Kennet Inc., Route2, RRI CHOICE Broadband Canada, Slave Lake Communications Ltd., Stafford Communications, Terastream Broadband Inc., Xplornet and YourLink Inc.
5. Comments and/or reply comments were received from the following other companies and organizations: 400525 Ontario Limited, 6Harmonics, Conseil provincial du secteur des communications (CPSC), Ericsson, Forum for Research and Policy in Communications (FRPC), MTS Allstream, Ontario Ministry of Economic Development, Employment and Infrastructure (MEDEI Ontario), Public Interest Advocacy Centre (PIAC), Saskatchewan Telecommunications (SaskTel), Shure Inc. (Shure), TELUS, U.S. Television Coalition and WIND.
6. Comments and/or reply comments were received from the following individuals and academics: Aldo Campanelli, William Devitt, Dr. Gregory Taylor and Dr. Catherine Middleton, Jeff May, Steven James May, Garry McLay, Merlofast, Francois Simard and Wayne Stacey.

2. Mandate

7. The minister of Industry, through the Department of Industry Act, the Radiocommunication Act and the Radiocommunication Regulations, with due regard to the objectives of the Telecommunications Act, is responsible for spectrum management in Canada. As such, the minister is responsible for developing goals and national policies related to the use

of spectrum resources and for ensuring the effective management of the radio frequency spectrum resource.

3. Legislation

8. The minister of Industry is provided the general powers for spectrum management in Canada pursuant to section 5 of the *Radiocommunication Act* and sections 4 and 5 of the *Department of Industry Act*. The governor-in-council may make regulations with respect to spectrum management pursuant to section 6 of the *Radiocommunication Act*; these regulations have been prescribed under the *Radiocommunication Regulations*. It should be noted that broadcasting policy falls within the responsibility of the Department of Canadian Heritage. The Canadian Radio-television and Telecommunications Commission (CRTC) regulates and supervises the Canadian broadcasting system to ensure that the objectives of the *Broadcasting Act* are met.

4. Policy Objectives

9. In managing the radio frequency spectrum, Industry Canada is guided by the policy objectives of the *Telecommunications Act* and the policy objective of the *Spectrum Policy Framework for Canada* (SPFC), which is to maximize the economic and social benefits that Canadians derive from the use of the radio frequency spectrum resource.

5. Background

10. Throughout this paper, the term "600 MHz band" refers to the frequency range considered for the repurposing from over-the-air (OTA) TV broadcasting to mobile services, extending from 698 MHz to a lower limit, which is yet to be determined. The amount of spectrum to be repurposed to commercial mobile could be between 20 and 120 MHz.

5.1 600 MHz Band Users

11. Current users of the 600 MHz band include OTA TV broadcasting, remote rural broadband systems (RRBS), low-power apparatus (e.g. wireless microphones and camera systems), TV white space (TVWS) devices and wireless medical telemetry systems (WMTS). This spectrum is also used for radio astronomy service (RAS) (band 608-614 MHz). Industry Canada is not considering any change to the allocation of spectrum to the RAS band at this time.

5.2 Demand for Spectrum

12. The global trend towards increasing demand for data-intensive content and applications is expected to continue into the foreseeable future, and world-class, competitive mobile wireless

networks and services will continue to be critical to success in the global digital economy. Smartphones, tablets, wearable devices, machine-to-machine devices and the apps that run on them are changing the way in which Canadians work, live and play. In Canada, data usage for these devices is growing, and mobile data traffic is expected to grow 9-fold from 2013 to 2018, a compound annual growth rate of 54%.¹ To address these challenges, Canada must allocate sufficient spectrum to mobile broadband use.

13. Various projections have estimated that Canada will require at least 473 MHz and as much as 820 MHz of spectrum to be allocated to commercial mobile services by 2017.² Based on Industry Canada's analysis, an objective was set for allocating a total of 750 MHz of spectrum to commercial mobile services by the end of 2017. To date, Industry Canada has been active in allocating more spectrum for commercial mobile use through various auctions, including the 700 MHz auction in 2014 and the AWS-3 and 2500 MHz auctions in 2015. As of April 2015, the amount of spectrum that has been made available in Canada is 648 MHz. Beyond these, the *Commercial Mobile Spectrum Outlook* identified additional spectrum from other bands, including the 600 MHz band.

14. Since 2008, new wireless carriers have entered the market offering new services to Canadians. As competition increases, carriers also continue to invest in networks. Today the percentage of Canadians with access to high-speed packet access plus (HSPA+) and long-term evolution (LTE) has grown to 99% and 81% respectively. At the same time, Canadian wireless subscribership is growing and consumers continue to increase their use of smartphones and tablets, driving demand for data services and increasing wireless network traffic.³ In 2014, the CRTC reported that wireless revenues now account for approximately 50% of all telecommunications revenue.⁴

15. It is also important to note that the broadcasting industry is currently in transition. Both the viewing habits of Canadians and the Canadian television system are shifting and evolving. While Canadians increasingly watch video programming online, they also continue to watch television through traditional distribution channels such as cable or satellite. Some Canadians also consider OTA TV services as an inexpensive alternative to cable and satellite television.⁵ Industry Canada notes that the CRTC recently announced decisions in support of continued OTA TV broadcasting as part of the *Let's Talk TV* process on the future of Canadian television. It also notes that the broadcasting industry must adapt to evolving technologies and viewing habits.

¹ *Cisco Visual Networking Index Mobile Forecast Highlights, 2013-2018*, June 2014, http://www.cisco.com/c/dam/assets/sol/sp/vni/forecast_highlights_mobile/index.html

² *Commercial Mobile Spectrum Outlook*, March 2013, Section 3 and Annex A. <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf09444.html>

³ CRTC's *2014 Communications Monitoring Report*, Section 5.5, <http://www.crtc.gc.ca/eng/publications/reports/PolicyMonitoring/2014/cmr.htm>

⁴ CRTC's *2014 Communications Monitoring Report*, Section 5.1, <http://www.crtc.gc.ca/eng/publications/reports/PolicyMonitoring/2014/cmr.htm>

⁵ *Broadcasting Regulatory Policy CRTC 2015-24*, Paragraph 9; <http://crtc.gc.ca/eng/archive/2015/2015-24.htm>

5.3 Opportunity to Repurpose the 600 MHz Band

16. The Federal Communications Commission (FCC) is preparing for an incentive auction for the 600 MHz band, currently scheduled to take place in early 2016. The incentive auction is designed to facilitate the repurposing of spectrum by encouraging OTA TV broadcasters to voluntarily relinquish some or all of their spectrum usage rights in exchange for proceeds from an auction of new mobile licences.⁶

17. Canada has exclusive jurisdiction over the rules applicable domestically to spectrum management. Canada recognizes that benefits and efficiencies can be achieved through spectrum harmonization, particularly for broadcast and mobile services.

18. Accordingly, Industry Canada launched a consultation in December 2014 to seek comments on repurposing the 600 MHz band in collaboration with the United States to address the demand for mobile spectrum in Canada. As part of this process, Industry Canada would establish a new allotment plan based on repacking OTA TV broadcasting stations more tightly in lower frequencies.

19. Specifically, Industry Canada sought comments on these two questions:

Question 1:

Industry Canada is seeking comments on the overall proposal of repurposing the band to include commercial mobile broadband and the initial step of participating in a joint repacking process with the United States.

Question 2:

Industry Canada is seeking comments on the future spectrum requirements for OTA TV broadcasting, taking into consideration the overall changes to the broadcasting industry, and noting that the CRTC's Let's Talk TV hearing recently closed.

Summary of Comments

20. Most broadcaster and broadcast organization respondents were generally supportive of the proposed repurposing and repacking of existing 600 MHz services in cooperation with the United States; however, they suggested that the government provide reimbursements to current spectrum users for costs incurred in transitioning to different frequencies. Some of these respondents who were generally supportive of the repurposing also suggested that the government create a fund to support local television. In addition to those that support repurposing, there were some local broadcasters and broadcast organizations that indicated that they were not fully supportive of repurposing if it would result in local broadcasters losing their ability to offer free OTA TV service from community-owned broadcasting services due to not having sufficient space in the new allotment plan or due to incurring costs that force them to shut

⁶ *Broadcast Incentive Auction 101*, Federal Communications Commission, http://wireless.fcc.gov/incentiveauctions/learn-program/Broadcast_Incentive_Auction_101_slides.pdf

down. Some respondents also noted the investment already made in the 2011 transition to DTV and questioned the need for repurposing at this point in time.

21. All Canadian broadcasters who submitted comments highlighted the importance of ensuring there is sufficient spectrum for OTA TV broadcasting. Some of the ISPs and individual and academic respondents also expressed support for maintaining OTA TV.

22. Most of the rural ISP respondents were supportive but requested that service providers be reimbursed for costs related to moving to new frequencies. Some suggested that all users of the band be accommodated regardless of whether they are primary or secondary users, and suggested that RRBS be permitted to continue to operate until there is a need to relocate.

23. In addition to those mentioned above, Ericsson, U.S. Television Coalition, Forum for Research and Policy in Communications, MTS Allstream, Sasktel, 400525 Ontario Limited and WIND were generally supportive. MEDEI Ontario and CPSC were only supportive of repurposing if existing users would receive financial support for repacking. PIAC and 6Harmonics were not supportive of repurposing. PIAC was concerned about the overall impact to OTA TV due to the transition costs on the OTA TV broadcasters, the lack of sufficient spectrum for future OTA TV services and costs to consumers. 6Harmonics was concerned that repurposing the 600 MHz band would limit future Canadian technology innovation and economic development.

24. Of the individuals who submitted comments, most were concerned that they may have access to fewer OTA TV programs after the repacking, including programming from Canada and the United States.

Discussion

25. This initiative will be undertaken with a view to considering the current and future needs of the broadcast industry and the mobile industry, as well as other users, in addition to protecting the interests of Canadian consumers.

26. As noted in the consultation paper and supported by the majority of respondents, significant benefits are realized when Canada aligns spectrum use with the United States, particularly when it comes to OTA TV broadcasting (due to the long range of broadcast transmissions and the high percentage of the Canadian population that lives along the Canada-US border) and mobile services (as Canadians would benefit from the economies of scale of the ecosystem developed for the United States). A joint repurposing initiative would result in an allotment plan that is very spectrally efficient and maximizes the amount of spectrum for both broadcast and mobile services in both countries. By taking part in a joint repurposing initiative with the United States, virtually every Canadian broadcaster would be guaranteed a channel in the new allotment plan for its existing stations. It is also expected that rural ISPs would be able to continue to operate either in the broadcast frequencies or in alternate spectrum bands.

27. If Canada does not repurpose at the same time as the United States, any future repurposing would likely result in the need to displace Canadian OTA TV transmitters in order to clear spectrum for mobile services and at that point, there may not be channels available to

which displaced broadcast transmitters could be reassigned. Any future repurposing would also result in less mobile spectrum being made available, compared with the amount which would result from a joint initiative with the United States.

28. While many respondents were supportive contingent on the costs of relocation being reimbursed, it is important to note that this is the first step of a multi-year process that focuses on the technical aspects of the repurposing of spectrum in the 600 MHz band. Consideration of compensation is not a part of this consultation process.

DECISION 1:

In light of the considerations and comments mentioned above, Industry Canada will proceed with the repurposing initiative of the 600 MHz band to include commercial mobile use and jointly establish a new digital TV (DTV) allotment plan based on repacking OTA TV broadcasting stations more tightly in lower frequencies, in collaboration with the United States. Canada and the United States intend to develop an understanding on a set of principles guiding this process.

6. 600 MHz Band Plan for the Mobile Service

6.1 Harmonizing With the US Band Plan

29. An essential consideration for the repurposing of UHF TV spectrum for mobile broadband services, and in general for the reorganization of the spectrum use in the UHF band, is the band plan to be adopted for the new uses of the spectrum. The new band plan for mobile services (“the 600 MHz band plan”) will determine the amount of spectrum available for commercial mobile services, how they can be deployed, and as well the frequency range where OTA TV broadcasting systems will continue to operate.

30. In the United States, the FCC adopted a band plan framework (“the US band plan framework”) to be used as the basis for the incentive auction. As described in the consultation, if Canada is to proceed with a spectrum repurposing and repacking process jointly with the United States, the frequency range where the OTA TV stations will be repacked is to be determined in real time based on supply and demand for spectrum during the bidding rounds. Hence, before the incentive auction starts, Canada must adopt the entire US band plan framework and commit to repurpose a yet to be determined amount of spectrum (which will be determined by market forces during the incentive auction).

31. Industry Canada sought comments on this specific question:

Question 3:

Industry Canada is seeking comments on the Department's proposal to:

- adopt the US band plan framework; and
- commit to repurposing the same amount of spectrum as the United States, as determined in the FCC's incentive auction.

Summary of Comments

32. The majority of respondents who supported the repurposing of OTA TV broadcasting spectrum in the UHF band for mobile broadband services were also supportive of adopting the US band plan framework. The same respondents supported harmonizing the spectrum use with the United States by committing to repurposing the same amount of spectrum, while ensuring that the spectrum needs for the current users of the band in Canada are addressed. Specifically, there was general support for a band plan scheme based on frequency division duplex (FDD), based on 5 + 5 MHz paired blocks, and using a fixed duplex gap of 11 MHz.

33. TELUS, Shaw, Bell, Rogers and others further proposed that Canada implement measures to ensure that Canadian interests are promoted in the repacking process, for example by ensuring that the mobile spectrum in most heavily-populated regions along Canada's border with the United States remains unimpaired as a result of implementation of market variation (see paragraph 44) in the neighboring US regions.

34. Cogeco proposed that, regardless of the amount of spectrum to be repurposed in the United States, as a result of the incentive auction, Canada should repurpose at least 100 MHz of spectrum in the upper portion of the UHF band.

35. In addition to harmonizing the band plan with the United States, Xplornet proposed reserving a minimum of 20 MHz of spectrum in the repurposed frequency range for the exclusive use of fixed wireless access systems.

36. Stafford Communications and Advanced Interactive Canada were of the view that Canada should adopt the US band plan framework only between 614 and 698 MHz (i.e., above channel 37).

37. CanWISP, supported by Groupe-Access and Route2, was of the view that it would be contrary to Canada's best interests to adopt the US band plan framework, as the proposed band plan would not address the needs for broadband delivery into rural and remote communities. CanWISP proposed an alternative band plan based on time division duplexing (TDD) or on a flexible duplex scheme not harmonized with the US band plan framework that would repurpose 174 MHz of spectrum in the 518-698 MHz range, resulting in 160 MHz for wireless broadband services. However, CanWISP did note that, if Canada did proceed with coordinating with the FCC, it wants to ensure that there would be optimal use of spectrum resources. In addition to CanWISP and the organizations that supported its proposal, CACTUS was also not supportive of the band plan framework.

38. Respondents that did not generally support the repurposing of the band either did not support the adoption of the US band plan framework, or did not address the band plan for mobile services in their comments. In general, these respondents questioned the need for additional spectrum for commercial mobile services. PIAC did however request minimal disruption for consumers and active assistance during the transition period, in case Canada did proceed with the repurposing.

Discussion

39. *Harmonized use of spectrum.* The wireless telecommunication services sector is heavily impacted by global economic, technical and regulatory influences. Wireless equipment, especially consumer terminal equipment, is highly complex and is manufactured in mass quantities. New products require long development cycles and significant research and development investments. As a result, to sustain a rapid pace of development and to leverage limited development resources, wireless technologies and products are targeted for global or regional markets. Harmonized spectrum allocations are thus required to enable deployment of the latest and most advanced products and technologies.

40. In this very case, harmonizing the spectrum use with the United States will facilitate Canadian access to the latest wireless devices and network technologies built for their market, ensuring lower costs and wider availability of equipment.

41. The radio waves in the 600 MHz band have very good propagation characteristics, providing a great advantage for the provision of mobile services, but at the same time increasing the risk of interference at larger distances. A harmonized band plan will greatly limit the possibility of interference between the systems in the two countries, facilitating the frequency coordination process and ensuring that services can be deployed in the proximity of the international border. This is especially important for Canada, taking into consideration that the majority of the Canadian population resides close to the Canada-US international border.

42. In addition, using a harmonized frequency band plan and the same type of wireless equipment will facilitate with US and Canada roaming. While other commercial mobile bands already provide good support for international roaming between Canada and the United States, the 600 MHz band could provide specific advantages due to its very good propagation characteristics.

43. Adopting the same band plan for mobile systems as the United States will also result in the harmonized use of spectrum for OTA TV broadcasting. In addition to economies of scale for TV consumer devices, this would minimize inter-service interference in the border areas, contributing to improved deployment conditions for both mobile and broadcasting services.

44. *Market variation.* As noted by some commenters, as a possible measure to maximize the amount of repurposed spectrum, the FCC is intending to make TV assignments within the mobile band in specific markets where the broadcasters' participation in the incentive auction is limited. This is referred to as "market variation".

45. The impact of implementing market variation would be to reduce the amount of mobile spectrum available for deployment. The reduction would be limited to specific geographic and frequency ranges, depending on the location and parameters (operating channel, power) of the interfering TV assignment. However, Industry Canada notes that the Canadian markets that would be potentially affected by market variation are the same markets where the demand for mobile spectrum is the greatest (such as southern Ontario, southern Quebec and southern British Columbia).

46. Implementing market variation in Canada would substantively reduce the amount of available mobile broadband spectrum in the areas where it is needed most. A similar impact would occur if market variation was implemented near the border areas in the United States since it would create impairments to specific frequency ranges and geographic areas in Canada.

DECISION 2:

In light of the considerations and comments mentioned above, Industry Canada will be adopting the band plan framework, depicted in Figure 1, as the basis for repurposing the 600 MHz band in Canada.

DECISION 3:

In light of the considerations and comments mentioned above, Industry Canada has decided that the amount of spectrum to be repurposed in Canada and the 600 MHz band plan for mobile services will be the same as the band plan option adopted in the United States as a result of the incentive auction.

DECISION 4:

In light of the considerations and comments mentioned above, Industry Canada has decided that no market variation will be implemented in Canada. In addition, Industry Canada will work with the FCC to ensure that market variation implementation in the United States includes due consideration of the impact of such impairments to the deployment of commercial mobile services in the 600 MHz band in Canada.

Figure 1 - 600 MHz Band Plan Framework for Canada



Legend:

- XX : TV channel
- X : Mobile block
- X : Mobile duplex gap
- X : Guard band
- 37 : RAS

6.2 Coexistence of Mobile and OTA TV Services

47. Guard bands are needed to ensure that the mobile and OTA TV services can be deployed free of interference. While guard bands are provisioned in the US band plan framework, Canada could implement larger frequency separations if needed while still maintaining harmonized use of spectrum with the United States. This could be achieved by avoiding assignments to TV stations in the last TV channel adjacent to the guard band.

48. Industry Canada sought comments on these specific questions:

Question 4:
 Industry Canada is seeking comments on the size of the proposed guard band between the TV broadcasting and mobile services.

- Is the mobile service appropriately protected by the proposed guard band?
- Is the TV broadcasting service appropriately protected by the proposed guard band?
- If additional protection measures are needed, what alternatives (such as increasing the size of the guard band, adding a pass band/notch filter at the TV receiver port, etc.) could be used and what alternatives would be practical to deploy?

Summary of Comments

49. The majority of respondents who provided comments to this issue indicated that, in their view, the proposed guard bands were sufficient to protect mobile and television services. A

number of respondents suggested that Industry Canada undertake a further technical consultation with the Radio Advisory Board of Canada concerning the size of the required guard bands.

50. Virtually every respondent who addressed this question also indicated that any additional protection measures requiring that further hardware be installed by TV viewers, such as a receive filter, would be impractical and would not be recommended.

51. CanWISP was the sole respondent who indicated that receive antennas outfitted with filters and subsidized by the new users of the band may be required in some areas. CanWISP further noted that such antennas for consumer use are available in other countries where similar spectrum repurposing from OTA TV broadcasting to mobile service had been implemented; however, the costs were not subsidized.

52. The broadcasters who addressed this issue are of the view that any measure, including the related costs, that may be required to provide protection from interference between mobile and TV services, be the responsibility of the new spectrum licensees.

Discussion

53. Industry Canada agrees that the size of the proposed guard band is sufficient to protect mobile services. It is expected that new mobile equipment will be designed and manufactured with the appropriate selectivity and rejection characteristics to ensure protection of mobile services.

54. Following the repurposing of spectrum in the UHF TV band, a large number of Canadian consumers will continue to receive TV broadcasting programming by using existing TV set receivers, which are currently available to the public. These receivers are designed to receive broadcast signals across the entire UHF band, and may not have strong rejection capabilities for the frequency range in the future 600 MHz band where mobile systems will be deployed. The selectivity and adjacent channel rejection characteristics of these TV receivers are generally compliant with the Advanced Television Systems Committee's ATSC A/74, *Receiver Performance Guidelines*.

55. To minimize the impact to TV reception in Canada, the frequency separation between mobile and TV services can be increased by avoiding Canadian TV assignments in the last TV channel just below the guard band. Such a measure would effectively increase the guard band by 6 MHz, while the spectrum use for mobile services and for TV would remain harmonized with that of the United States.

56. As noted in the consultation, the exact frequency ranges for the guard bands and duplex gap will only be known after the conclusion of the US incentive auction. Consequently, the detailed spectrum policy and licensing framework for the use of these bands by low-power applications, such as wireless microphones, camera systems and TVWS devices, will be addressed in a separate public consultation at a later date. At that time, consideration will be given to the harmonization of technical requirements with the United States in order to ensure that the same equipment can be used in both countries.

DECISION 5:

In light of the considerations and comments mentioned above, Industry Canada has decided that, where possible, no Canadian TV assignments will be made in the last TV channel adjacent to the originally proposed guard band, effectively increasing the guard band between the frequencies used for mobile and TV services by 6 MHz and reducing the potential for interference to broadcast services from the mobile services.

7. Transition Policy for Current Users of the 600 MHz Band**7.1 Users of the 600 MHz Band**

57. Current services of the 600 MHz band include over-the-air (OTA) TV broadcasting, remote rural broadband systems (RRBS), low-power apparatus (e.g. wireless microphones and camera systems), television white space (TVWS) devices and wireless medical telemetry systems (WMTS).

58. The TV broadcasting bands currently occupy the frequency ranges 54-72 MHz, 76-88 MHz, 174-216 MHz (VHF) and 470-698 MHz (UHF). The TV broadcasting system is comprised of regular power TV stations (also referred to as primary TV broadcasting undertakings) and low-power TV undertakings (also referred to as LPTV stations), which operate on a no-interference, no-protection basis relative to the regular power TV stations.

59. In addition to TV broadcasting, the TV bands are used on a secondary basis (i.e. on a no-interference, no-protection basis) for low-power apparatus (including wireless microphone applications and wireless cameras) and RRBS. There is also a policy and technical framework for TVWS devices.⁷ However, at this time there are currently no TVWS devices that are operational in Canada.

7.2 Transition Policy for Regular Power TV Broadcasting Undertakings

60. The repurposing of the 600 MHz band would affect many Canadian regular power TV stations as the OTA TV stations may be reassigned new TV channels.

⁷ SMSE-012-12, *Framework for the Use of Certain Non-broadcasting Applications in the Television Broadcasting Bands Below 698 MHz*, Section 4, <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf10493.html>

61. Industry Canada sought comments on this specific question:

Question 5:

Industry Canada is seeking comments on the proposed transition policy for the regular power TV stations, including but not limited to:

- the design objectives for the development of the new DTV allotment plan;
- the methodology and parameters to ensure minimal impact to TV reception;
- the minimum notification period for the relocation to the new DTV assignments; and
- the overall timing for the transition to the new DTV allotment plan.

7.2.1 Design Objectives for the Development of the New DTV Allotment Plan

62. In the consultation, Industry Canada proposed three design objectives for the development of the new DTV allotment plan, specifically:

- 1) to be spectrally efficient, i.e. enable the repurposing of the maximum amount of spectrum for mobile broadband;
- 2) to ensure available channels for all operating regular power TV stations in Canada; and
- 3) to minimize impacts on OTA TV reception.

Summary of Comments

63. The Canadian Association of Broadcasters (CAB) was of the view that the design objectives should be expanded and re-ordered as:

- 1) to maintain continuity of service and minimize disruption to viewers receiving OTA television services;
- 2) to confirm available channels for all TV stations in Canada;
- 3) to optimize TV coverage and operating parameters; and
- 4) to ensure spectral efficiency.

64. A number of respondents mostly representing small or independent broadcasters suggested that multiplexing of TV stations could be used to allow more efficient use of the TV spectrum. However, Bell and CAB opposed the use of multiplexing, stating that this would limit viewers' access to the full HDTV experience and prevent the broadcaster from pursuing new technology or standards.

65. The majority of the broadcasters agreed that all regular power TV stations should remain in their current band of operation in the new DTV allotment plan. Furthermore, Bell, SMITS, and CAB proposed that broadcasters have an opportunity to review and comment on a provisional allotment plan before it is finalized, such that they can switch their band of operation if needed.

66. CAB and STQ both suggested that TV stations have the opportunity to change operating parameters up to the maximum permitted in the current *DTV Post Transition Allotment Plan* before a new DTV allotment plan is finalized.

67. TELUS believed that the new DTV allotment plan needs to be spectrally efficient and supported Industry Canada's proposal to develop the new allotment plan based on current operating parameters for the TV broadcasting undertakings as opposed to maximum parameters.

68. CAB and PIAC also suggested that there be sufficient flexibility built into the DTV allotment plan to allow future adoption of new and improved technologies such as ultra-high definition TV (UHDTV) and Advanced Television Systems Committee (ATSC-3) standards.

Discussion

69. Industry Canada is of the view that the initiative of repurposing the 600 MHz spectrum should be established to provide the maximum opportunity for all existing OTA TV transmitters to maintain access to spectrum, while balancing the need for additional commercial mobile spectrum with the current needs of the broadcast industry and the interests of Canadian consumers in being able to benefit from both services.

70. *Multicast transmission.* Although multicast (multiplexing) is a technique for improving spectral efficiency, it may limit the broadcasters' ability to pursue new technologies and or standards, such as UHDTV. Industry Canada notes that even if not mandated, interested broadcasters may experiment with multicast technology services on a voluntary and experimental basis.

71. *Vacant allotments.* The number of TV undertakings in Canada has been static in recent years. Since August 2011, only five new TV stations (regular and low-power) have been established in Canada. Provisioning vacant TV allotments reserved for future growth would directly limit the amount of repurposed spectrum. It is also noted that it may be difficult to predict the geographic areas where future stations would likely be requested. Furthermore, it is noted that in each market area, future growth of OTA TV services may be accommodated on a case-by-case basis.

72. *Operating vs. maximum allotted parameters.* Currently, most of the regular power TV stations in Canada operate at transmit parameters below the maximum levels permitted by the *DTV Post Transition Allotment Plan*. When necessary, broadcasters have already taken steps, such as modifying parameters or changing channels, to address any problems stemming from the 2011 conversion to DTV. As a result of the considerations and potential changes raised, and the possible significant reorganization of the services in the 600 MHz band, Industry Canada placed a moratorium on new applications for licensing in the TV broadcasting bands. Allowing existing TV stations to switch their band of operation or increase operating parameters would create additional constraints for the repacking process.

73. In the consultation, as a design objective for the new allotment plan, Industry Canada proposed to ensure available channels for all operating regular power TV stations in Canada. All commenters supported this design objective, recognizing the important role that OTA TV stations play on providing local programming to Canadians, as well as OTA TV stations' obligation to maintain an over-the-air presence in order to retain certain regulatory privileges.

74. If a TV station is assigned to a different channel as a result of the repacking process, its transmit power and antenna pattern may need to be modified to preserve the station's service area. Maintaining the station's service area would be difficult to achieve if the new channel of operation were in a different frequency band, due to varying propagation characteristics. In addition, changing the frequency band may introduce additional complexity for the transition to the new channel, because of possible changes required in the transmitting antenna. Therefore, Industry Canada is of the view that, when assigning an alternate channel to an affected station, it is preferable to maintain the station's frequency band of operation, i.e. low very-high frequency (LVHF), high very-high frequency (HVHF) and UHF. This will also minimize possible impacts to TV viewers as minimal or no changes will be required to the TV receive antennas.

DECISION 6:

The new DTV allotment plan will be developed based on the following design objectives and supporting measures:

- **The new DTV allotment plan will not include vacant TV allotments.**
- **The new allotment plan will be based on current operating parameters for the TV broadcasting undertakings.**
- **Available channels must be ensured for all operating regular power TV stations in Canada.**
- **In the new DTV allotment plan, regular power TV stations operating in DTV mode will not change the band in which they operate whether it be UHF, HVHF or LVHF; regular power TV stations operating in National Television System Committee (NTSC) mode will not change the band that they were allotted in the current *DTV Post Transition Allotment Plan*.**
- **Existing TV stations will not be able to switch their band of operation or increase operating parameters until the end of the moratorium on new applications for licensing in the TV broadcasting bands.**

7.2.2 Methodology and Parameters for Ensuring Minimal Impact to TV Reception

75. In the consultation, Industry Canada proposed and sought comments on the methodology and parameters to be used to develop the new DTV allotment plan.

Summary of Comments

76. Bell proposed that the repacking methodology make provisions to minimize the number of channel changes to the existing stations in order to minimize the impact to OTA TV reception and disruptions to viewers.

77. Most of the broadcasters indicated that there should be no increase in interference from current levels as well as no reduction in noise-limited bounding contours (NLBCs) in any direction due to the station's simultaneous substitution and mandatory carriage rights. However, CAB stated that there may be tolerable levels of interference or possibly power reductions for

analog stations in a transition scenario that may be acceptable for a reasonable period of time. In addition, CAB stated that any increase in interference stemming from mobile services would not be acceptable.

78. Bell and CAB pointed out that a transitional allotment plan may be required to allow for channel changes on both sides of the border to prevent objectionable interference and allow stations to maintain service to viewers. CAB further recommended that such temporary operations not affect the licensed coverage of a station and not impact the carriage and program distribution rights of TV stations.

79. Shaw proposed a two-step approach to transition from analog to digital service: with all else being equal, the first step would be for any new digital NLBC to be matched to the station's current grade B contours. The second step that Shaw suggested, as did CAB, was that an increase of 8 dB in effective radiated power (ERP) be added to the proposed digital allotment. This ERP increase would allow the digital reception capability to match the analog reception capability, as it would compensate for the "cliff effect" (lower digital reception thresholds at the fringes of coverage). Furthermore, CAB believed that the increase in ERP should not be restricted to analog stations and that DTV stations should be given an opportunity to modify operating parameters to correct assumptions made during the DTV transition in 2011.

80. Shaw stated that, since interference determinations are based on calculations, it is possible that current viewers in the "interference zone" (areas within a station's NLBC that are predicted to receive interference based on calculations) may be able to receive TV signals. Shaw therefore proposed that, in determining a new coverage area, all population in the current interference zone be considered. In addition, based on its own experience, Shaw proposed not to use LVHF band unless requested by the broadcasters.

Discussion

81. In developing the new DTV allotment plan, Industry Canada will place the priority on fulfilling the design objectives. However, when possible, Industry Canada will consider other factors, such as minimizing the number of existing stations that will need to perform channel changes.

82. *Noise-limited bounding contours.* When a TV station is assigned to a different channel, its transmit power and antenna pattern may need to be modified to preserve the station's coverage area. However, due to varying propagation characteristics of different channels, there may be some small differences in the geographic location of the station's new NLBC. In determining the ERP for the new operating channel, Industry Canada will assume for planning purposes that the station continues to use its existing antenna pattern and adjusts its power level such that the total area within the NLBC remains the same. During the transition period, Industry Canada will ensure that its broadcast database reflects the full service contours for OTA TV broadcasting undertakings (not showing the effects of additional interference or reduced transmission power, which may be employed on an interim basis during the transition period).

83. *Transition allotment plan.* Unlike the transition to DTV, there is insufficient spectrum available for a transitional allotment plan to provide temporary channels of operation during the

transition to the new DTV allotment plan. However, Industry Canada will collaborate with the FCC to develop a transition plan that will minimize the impacts to the reception of TV signals.

84. *ERP increase to compensate for cliff effect.* In regards to the proposed increase in power for the conversion from analog to digital service, Industry Canada notes that the conversion methodology proposed in Annex A of the consultation already provides equivalently more than a 7 dB increase in ERP after matching the resulting DTV station's F(90,90) contour distance to the NTSC TV station's grade B contour distance.

85. Including the total amount of population in the current station's interference zone in the population served by the station as part of the baseline for interference level calculation would exceed the currently accepted determination of service to existing viewers. This would also result in a less spectrally efficient DTV allotment plan as stations would require additional separation distance between them. Furthermore, viewers in the interference zone may be able to receive OTA TV in the reassigned channel.

DECISION 7:

In light of the considerations and comments mentioned above, Industry Canada will use the planning parameters and technical assumptions listed in Annex C to develop the new DTV allotment plan.

7.2.3 Minimum Notification Period for the Relocation of Regular Power Stations to the New DTV Assignments and Overall Timing for the Transition to the New DTV Allotment Plan

86. Industry Canada recognizes that changing the channel of operation for a regular power TV station is a complex task, requiring significant engineering resources, time for planning and equipment procurement, as well as civil works, if needed. The timing and the implementation of the transition to the new DTV allotment plan will need to be developed and coordinated jointly by Canada and the United States. As an additional consideration, a timely deployment of the mobile broadband services in the repurposed 600 MHz band would be desirable. In the consultation, Industry Canada proposed that all regular power TV undertakings that need to relocate to a new channel assignment in the new DTV allotment plan be provided with a minimum notification period of 18 months.

Summary of Comments

87. Most broadcasters as well as the NAB maintained that the proposed 18-month minimum notification period is not sufficient due to the limited number of resources, such as the number of third party providers of equipment, installation expertise, and the complexity of the transition which will be implemented simultaneously in Canada and the United States. In turn, they proposed a minimum notification period of 39 months and, in some special cases, longer than 39 months. Shaw stated that a flexible deadline is needed to account for special circumstances.

88. Rogers and SaskTel supported the proposed minimum notification period of 18 months; however, Rogers further proposed that, under special cases, a longer period of time of up to 48 months be provided.

89. Cogeco and WIND, on the other hand, proposed a one year transition period to ensure the timely deployment of the repurposed spectrum for broadband applications. Advanced Interactive Canada Inc. suggested that the overall timing be as reasonably short as possible to allow for other services to be planned. CanWISP believed that the transition could be finished by July 1, 2016, and recommended that the Radio Advisory Board of Canada be requested to develop a plan in concert with the DTV, RRBS, and TV white space community so that a rapid but minimally disruptive transition could be carried out.

90. Shaw, Rogers and Bell were of the view that broadcasters should be given a realistic timetable for completing channel changes within a given period, having regard to the cumulative impact of all channel changes required of OTA broadcasters, individually and collectively in Canada and in the United States. Rogers further suggested that any delay in the release of the new DTV allotment plan or the transition schedule not result in less time given to broadcasters to plan and complete their respective transition to a new channel.

91. Rogers, SMITS, Bell and STQ recommended a phase-in method of implementing the new DTV allotment plan rather than the reduced service approach, as it would be important to maintain current services to viewers.

92. SMITS proposed that, in markets where there is no immediate need for mobile spectrum, TV stations be allowed to maintain their current 600 MHz band allotments until mobile broadband demand warrants a relocation. SMITS further proposed that, as a potential interim measure for small markets without an immediate need for mobile spectrum, TV stations be allowed to remain on their current channel for as long as possible (be it in digital or analog), where this could be done without causing interference to television or mobile services in adjacent markets.

Discussion

93. Recognizing the importance of maintaining the current OTA TV reception during the transition to the new DTV allotment plan, Industry Canada intends to work with the FCC to develop a phase-in method for implementing the new DTV allotment plan. The implementation plan would have as objectives:

- 1) to minimize the impact to TV viewers during the transition period, and
- 2) to maximize the amount of time and other resources available to broadcasters during the transition period.

However, due to the complexity of the transition process, which may involve sequential dependencies between stations in the same or adjacent markets, it is expected that a temporary increase in permissible interference levels may be required. As well, Industry Canada will work with the FCC to develop a transition plan that will take into account the cumulative impacts of all changes to broadcasters, both domestically and internationally.

94. Since all of the regular power TV stations will keep their current band of operation, it is likely that some stations will be able to switch to their new channel of operation without requiring significant equipment changes. As a result, Industry Canada believes that a minimum notification period of 18 months following the release of the implementation plan is sufficient for regular power TV stations currently operating below the to-be-repurposed 600 MHz band. Industry Canada recognizes the need to accommodate situations where specific technical challenges would require longer notification periods.

95. Since Industry Canada will adopt a phase-in method for implementing the new DTV allotment plan, the stations' scheduled channel changes in later phases will benefit from a notification period longer than 18 months. To determine which of the TV broadcasting undertakings face a difficult retuning process and require a longer notification period, Industry Canada will require additional detailed technical information on the ability of the current broadcast facilities to operate (or not) over extended frequency ranges, such as information on their broadband antennas.

96. All regular power TV undertakings currently operating in the to-be-repurposed 600 MHz band are permitted to continue using the current channels and modes of operation until the spectrum is needed for the deployment of mobile broadband services, as displacement will only be on an "as necessary" basis. When displacement is required in order to allow for the deployment by mobile broadband operators, regular power TV undertakings that operate within the 600 MHz band and that are located in urban areas will be afforded a minimum of a one-year notification period (as detailed in Annex A), and regular power TV undertakings that operate within the 600 MHz band and that are located in all other areas will be afforded a minimum of a two-year notification period. Industry Canada will issue a displacement notification only if it determines that the continued operation of these undertakings will interfere with the new mobile services in the 600 MHz band. Voluntary agreements between the operators of these undertakings and 600 MHz licensees may provide for earlier displacement or allow the temporary operation of these undertakings to continue. Where new mobile service operators prefer to deploy earlier than permitted, the mobile operator and the incumbent may come to a mutually beneficial agreement in which the notification period may be less than one year.

97. Industry Canada notes that all regular power TV undertakings operating outside the to-be-repurposed 600 MHz band can be permitted to operate on the current channels and modes of operation as long as it would not cause additional interference to other stations during or after the transition process to the new DTV allotment plan (i.e., on a secondary basis relative to other TV stations). This may be the case especially for TV broadcasting stations located far from the Canada-US border and in more remote areas.

98. The actual sequence of channel changes for individual stations cannot be determined until the new channel assignments are known at the conclusion of the incentive auction. To assist with the transition process, Industry Canada will also collect technical information on the ability of each broadcasting facility to operate over extended channel ranges. However, Industry Canada will develop a procedural document indicating the sequence of events and milestones leading to the completion of the transition to the new DTV allotment plan and the issuance of the new broadcasting certificates.

DECISION 8:

In light of the considerations and comments mentioned above, the following decisions have been adopted:

- Industry Canada will work with the FCC to develop a process to transition to the new DTV allotment plan based on a phase-in approach.
- All regular power TV undertakings currently operating below the to-be-repurposed 600 MHz band that need to relocate to a new channel assignment in the new DTV allotment plan will be provided with a minimum notification period of 18 months after the implementation plan is finalized.
- Regular power TV undertakings (in either DTV or NTSC mode) currently operating in the to-be-repurposed 600 MHz band will be permitted to continue using their current channels and modes of operation (i.e. analog or digital) until the spectrum is needed for the deployment of mobile broadband services. Industry Canada will issue a displacement notification only if it is determined that the continued operation of these undertakings will prevent the deployment of new mobile services in the 600 MHz band.
- For these TV undertakings, the following minimum notification periods will apply (as detailed in Annex A): (i) regular power TV undertakings located in urban areas will be afforded a minimum of a one-year notification period; and (ii) regular power TV undertakings located in all other areas will be afforded a minimum of a two-year notification period.
- Regular power TV undertakings (in either DTV or NTSC mode) operating outside the to-be-repurposed 600 MHz band will be permitted to operate on a secondary basis (i.e., on a no-interference, no-protection basis) relative to other TV stations.
- Additional information will be collected to evaluate the ability of broadcasting facilities to operate over extended frequency ranges.

7.3 Transition Policy for Low-Power TV Broadcasting Undertakings

99. In the consultation published in December 2014, Industry Canada stated that channels of operation are expected to continue to be available for virtually every LPTV currently in operation in Canada. LPTV broadcasting stations operate on a no-interference, no-protection basis relative to the regular power TV stations. As many of the regular power TV stations will change channels of operation, it is expected that a significant number of the LPTV stations operating in the VHF and UHF bands would also be affected by the repacking. Industry Canada sought comments on specific proposals for the transition of LPTV stations currently operating in the to-be-repurposed 600 MHz band and for the LPTV stations operating in the rest of the TV bands.

100. Specifically, Industry Canada sought comments on the following questions:

Question 6:

Industry Canada is seeking comments on the proposed transition policy for LPTV undertakings in the spectrum to be repurposed to mobile use.

Question 7:

Industry Canada is seeking comments on the proposed transition policy for LPTV undertakings below the 600 MHz band.

Summary of Comments

101. Quebecor Media Inc., Rogers, MTS Allstream, TELUS and Advanced Interactive Canada Inc., all supported Industry Canada's statement that it is expected that new channels of operation would be available for virtually every LPTV broadcasting undertaking.

102. Bell, CAB and CACTUS suggested that Industry Canada ensure that replacement channels are assigned to all existing LPTV stations.

103. Most respondents agreed with Industry Canada's proposal that the transition policy for the LPTV stations currently operating in the 600 MHz band be based on the displacement of incumbents on an "as necessary" basis.

104. There was also general support for Industry Canada's proposal that the displacement of the incumbent LPTV stations operating in the 600 MHz band be subject to a notification period of one year for LPTV stations located in urban areas and along highway corridors, and a notification period of two years for LPTV stations in all other areas.

105. Bell and CAB believed that there is a need to provide more clarity regarding the criteria or definitions that would be used to identify which stations are "located in urban areas and along highway corridors".

106. SaskTel anticipated that the rapidly increasing demand for bandwidth in rural areas would necessitate system deployment in the 600 MHz band over a shorter time frame than the proposed two-year notification period. Therefore, SaskTel proposed a one-year notification period for incumbent LPTV stations in all areas operating in the 600 MHz band. Failing that, SaskTel suggested no more than an 18-month notification period for incumbent LPTV stations outside of urban areas and along highway corridors.

107. Bell and CAB recommended that all LPTV stations be provided with a minimum notification period of two years before their displacement date.

108. Most respondents agreed with Industry Canada's proposal that LPTV stations currently broadcasting in analog mode be permitted to continue to do so on a no-interference, no-protection basis.

109. There was a general support for Industry Canada's proposal that all LPTV stations operating below the 600 MHz band be advised of their status and projected displacement date within six months of the close of the US incentive auction.

Discussion

110. Industry Canada notes that a number of LPTV stations may be impacted by the repacking process due to the deployment of new mobile broadband services and the fact that most of the regular power TV stations are expected to change their channels of operation. Impacts on LPTV stations will differ depending on whether their existing operating channels are within or below the repurposed spectrum.

111. Although LPTV undertakings operate on secondary TV channel assignments on the basis of not causing interference to, and not receiving protection from, regular power TV stations, Industry Canada plans to work to mitigate the potential impact of the repacking process in order to preserve the services that LPTV stations provide.

112. Industry Canada will collaborate with the FCC to ensure that a channel of operation will be available for virtually every LPTV station. However, Industry Canada notes that, in some communities, multi-channel LPTV facilities operating up to 25 TV channels are in service. For the 600 MHz band plan options with high clearing targets such as repurposing 108 MHz of spectrum or more (refer to Figure 1), the number of TV channels left in the band plan may not be sufficient to accommodate these multi-channel operations. For these particular cases, Industry Canada will work with the affected licensees to assist them in finding a technical solution to minimise the possible impact. For lower spectrum clearing targets, it is expected that a channel of operation will be available for every LPTV station. In summary, virtually every LPTV station listed in Annex A will receive a digital channel assignment in the new DTV allotment plan resulting from the incentive auction. The new channels will be based on the parameters and methodology defined in Annex C of the present document. Industry Canada will also work with the FCC to ensure that the repacked LPTV stations will not be subject to displacement by regular power stations after completion of the repacking process.

113. LPTV stations that will need to change their channel of operation will be subject to displacement on an "as necessary" basis. LPTV station licensees will be afforded a notification period before displacement. The methodology and duration of the notification period will depend whether the LPTV station operates in the repacked portion of the band or in the to-be-repurposed 600 MHz spectrum.

114. In order to facilitate the deployment of mobile broadband services, LPTV stations that operate within the 600 MHz band and are located in urban areas (as detailed in Annex A) will be afforded a minimum of a one-year notification period. LPTV stations that operate within the 600 MHz band and are located in all other areas will be afforded a minimum of a two-year notification period. Industry Canada will issue a displacement notification only if it determines that the continued operation of the LPTV station will interfere with the new mobile services in the 600 MHz band. Voluntary agreements between LPTV station operators and 600 MHz licensees may provide for earlier displacement or for the continued operation of the LPTV stations. Where new mobile service operators prefer to deploy earlier than permitted, the mobile

operator and the incumbent may come to a mutually beneficial agreement in which the notification period may be less than one year.

115. For LPTV stations currently operating below the 600 MHz band, some LPTV stations may need to change operating parameters (including channel of operation) to ensure protection of regular power TV stations operating on new channels in accordance with the new DTV allotment plan. To reduce the complexity of the transition plan, LPTV stations will not be added to the channel move sequencing for the regular power TV stations. As a result, some LPTV stations may be displaced from their current operating channels, and as secondary operators, may need to operate with reduced power levels, accept higher interference levels or move to their new assigned channel in the allotment plan. Industry Canada will advise these LPTV stations of their status and projected displacement date within six months of the close of the US incentive auction. As well, the Canadian regular power TV stations will be required to notify the affected LPTV stations at least six months before their displacement date.

116. LPTV undertakings (in either DTV or NTSC mode) operating below the to-be-repurposed 600 MHz band should be able to operate on their current channels and modes of operation as long as no additional interference is caused to other stations during or after the transition to the new DTV allotment plan, i.e., on a secondary basis relative to other TV stations. This may be the case especially for LPTV broadcasting stations located far from the Canada-US border and in more remote areas.

DECISION 9:

In light of the considerations and comments mentioned above, Industry Canada has decided the following:

- **Industry Canada will work with the FCC to ensure that a digital channel of operation will continue to be available for virtually every LPTV station listed in Annex A based on the parameters and methodology defined in Annex C of the present document.**
- **Industry Canada will advise all LPTV stations operating outside the 600 MHz band of their status and projected displacement date within six months of the close of the US incentive auction. As well, the Canadian regular power TV stations will be required to notify the affected LPTV stations at least six months before their displacement date.**
- **For LPTV stations operating within the to-be-repurposed 600 MHz band, the following minimum notification periods will apply: (i) LPTV stations located in urban areas (as detailed in Annex A) will be afforded a minimum of a one-year notification period; and (ii) LPTV stations located in all other areas will be afforded a minimum of a two-year notification period. Industry Canada will issue a displacement notification only if it is determined that the continued operation of the LPTV station will prevent the deployment of new mobile services in the 600 MHz band.**
- **LPTV undertakings (in either DTV or NTSC mode) operating outside the to-be-repurposed 600 MHz band will be permitted to operate on their current channels and**

modes of operation on a secondary basis (i.e., no-interference, no-protection basis) relative to other TV stations.

8. Transition Policy for Other Current Users

8.1 Remote Rural Broadband Systems (RRBS)

117. RRBS are communication systems that provide broadband services to remote rural communities in Canada, using unused TV broadcasting channels (channels 21 to 51, excluding channel 37) in locations that are more than 121 km from the Canada-US border and at a sufficient distance from major population centres. The policy decision to allow RRBS in Canada was established in Radio Systems Policy RP-006, *Policy for the Use of 700 MHz Systems for Public Safety Applications and Other Limited Use of Broadcasting Spectrum*, published in June 2006. RRBS licences include restrictions on operating near the border, near cities and on frequencies that create interference with TV broadcasting operations. RRBS are not permitted to cause interference to, or claim protection from, licensed broadcast operations.

118. In 2012, Industry Canada released the document SMSE-012-12, *Framework for the Use of Certain Non-broadcasting Applications in the Television Broadcasting Bands Below 698 MHz*, on the introduction of TVWS devices in the bands below 698 MHz. The document included a decision to continue to issue and renew licences for RRBS; however, the decision also indicated that, should changes occur to the TV broadcast spectrum below 698 MHz, this practice may need to be revisited.

119. The impacts of the 600 MHz spectrum reallocation on RRBS will not be known until after the implementation plan is completed. At this time, it is expected that many of the RRBS will need to change their parameters, such as their channel of operation and transmitted power, so that virtually every RRBS operator can be accommodated with spectrum in alternate broadcasting frequencies. The list of RRBS stations is detailed in Annex B.

120. Industry Canada proposed a transition policy for the RRBS currently operating in the 600 MHz range based on the displacement of incumbents on an "as necessary" basis. The operation of existing RRBS would continue to be permitted on a secondary basis (i.e. a no-interference, no-protection basis) relative to the new mobile systems. It was proposed in the consultation that RRBS licensees operating on frequencies within the 600 MHz band be afforded a notification period of two years (consistent with the notification period afforded to LPTV stations in rural areas) before displacement following the licensing of mobile services in Canada. A displacement notification would be issued by Industry Canada only after a technical determination has been made, concluding that continued operation of the RRBS station would impede the deployment of new licensed mobile systems in the 600 MHz band.

121. As outlined in the consultation, there is currently a moratorium on new applications for licensing in the TV broadcasting bands. The moratorium is a result of the considerations and potential changes raised in the consultation, and the possible significant reorganization of the

services in the TV broadcasting bands. It is expected that the moratorium will be in place until the new DTV allotment plan, spectrum utilization policies for radiocommunication services, and technical and regulatory rules for the TV broadcasting bands become available.

122. Industry Canada sought comments on the following question:

Question 8:

Industry Canada is seeking comments on the proposed transition policy for RRBS.

Summary of Comments

123. A total of 11 ISPs submitted comments related to the transition policy for RRBS. Most of the ISPs that operate in the broadcast frequencies suggested that they be reimbursed for costs incurred in moving to new frequencies. Additionally, some RRBS licensees requested that they be protected from displacement and that the moratorium be lifted in order to permit them to continue to serve rural areas without disruption. Most ISPs agreed with the proposed transition timelines but some requested a longer notification period.

124. The broadcasters and broadcast associations were generally supportive of Industry Canada's transition policies for RRBS. However, CAB and Shaw opposed the addition of the frequency range 470-512 MHz, and wanted LPTV to be given priority over RRBS in possible relocation or frequency changes during the repacking process.

125. SaskTel agreed with the displacement of RRBS operators on an "as necessary" basis, but suggested reducing the notification period in order to ensure that there would be no delays that would affect other users in the band. MEDEI Ontario suggested that Industry Canada endeavour to assign channels within the operators' existing equipment to reduce associated costs. In addition, MEDEI Ontario suggested that financial compensation be provided. Given the significant contribution of Internet services that RRBS operators provide in the rural areas, this organization is concerned that RRBS service providers may not be able to continue their business if the 600 MHz is repurposed.

126. YourLink and ABC Communications requested notification periods longer than two years. 400525 Ontario Limited, Advanced Interactive Canada Inc. and RRI Choice Broadband Canada were concerned with the moratorium, one specifically stating that the moratorium was unnecessary beyond the 400-kilometre Canada-US border zone, and another requesting to see the moratorium lifted. Advanced Interactive Canada Inc. and Terastream requested that the secondary status of RRBS be upgraded to primary, with Advanced Interactive Canada Inc. suggesting that RRBS licensees be considered equal to commercial mobile licensees, and Terastream and Groupe-Acces suggesting that RRBS be treated similarly to LPTV during the repacking process. Lastly, ABC Communications and YourLink were concerned with the costs associated with the repacking process, including the purchase of equipment. CanWISP proposed that a standard size of 5 MHz blocks be established for RRBS, which was also supported by Route2. Beacon Broadband generally disagreed with the repurposing exercise.

Discussion

127. As noted in Section 5, Industry Canada will proceed with the repurposing of the 600 MHz band to allow for the deployment of mobile services. Industry Canada recognizes the cost of changing frequencies and replacing equipment and will minimize the impact by displacing incumbents only on an "as necessary" basis. This will likely result in many RRBS operators being permitted to continue operating on their existing frequencies for many years. For RRBS operations within the repurposed 600 MHz spectrum to be displaced, a minimum notification period of two years is reasonable given that the mobile operators would have flexibility in deployment plans. Conversely, some of the RRBS operating on frequencies outside the 600 MHz range may be impacted by the reorganization of the TV broadcasting assignments for regular and low-power TV stations. The details of these impacts will be determined by the implementation plan for TV repacking, which will be developed after the conclusion of the US incentive auction. The displacement notification periods for stations will vary, as each RRBS station will only be required to vacate the spectrum in time for a specific broadcaster's relocation into those frequencies. In limited circumstances, this may result in a short displacement notification period if the RRBS operator is operating on frequencies required in the initial stages of the broadcasting repacking plan. However, there will be a minimum notification period of five months if the operator is in the broadcasting spectrum.

128. Once the implementation plan has been established, RRBS licensees will be advised of the likely timelines for relocation and possible options for new frequencies. Industry Canada will assist in finding new channels of operation for RRBS stations. It is expected that new channels of operation in the UHF TV band, providing a coverage level similar to the current one, would be available for the majority of RRBS stations. However, it is possible that spectrum within the UHF band may not be available in some cases. To increase channel availability for current RRBS operations, Industry Canada proposed to increase the spectrum range where the channels for RRBS can be reassigned, by also adding the range 470-512 MHz (TV channels 14-20) to the frequency band where RRBS are allowed to operate. These channels may be made available if required to accommodate existing RRBS operations.

DECISION 10:

All RRBS licensees will be permitted to operate on a secondary basis (i.e. a no-interference, no-protection basis). For RRBS operating in the repurposed 600 MHz spectrum, a displacement notification period of two years will apply. Following the incentive auction in the United States and the development of the joint implementation plan for broadcast transmitters in both Canada and the United States, Industry Canada will work with RRBS operators to clarify their options for continued operation. Additional frequencies in the range 470-512 MHz may be made available if required to accommodate existing RRBS operations following the finalization of the new DTV allotment plan.

8.2 Low-Power Apparatus, Including Wireless Microphones and Camera Systems

129. The use of wireless microphones and camera systems, on both a licensed and licence-exempt basis, is currently permitted in the VHF bands (54-72 MHz, 76-88 MHz, 174-216 MHz) and the UHF band (470-698 MHz). Following Industry Canada's decision to allow the use of TVWS devices (see SMSE-012-12), wireless microphone and camera operators operating in the TV bands were able to apply for a licence to ensure protection from interference caused by TVWS devices.

130. The UHF TV band is widely used by low-power radiocommunication apparatus, including wireless microphones and camera systems. Through Spectrum Advisory Bulletin SAB-001-10 and SAB-001-12, Industry Canada announced that the operation of low-power radiocommunication devices, including wireless microphones, would no longer be permitted in the band 698-806 MHz after March 31, 2013. Many of these systems have relocated their frequencies of operation from the 700 MHz band to the UHF TV band below 698 MHz.

Summary of Comments

131. Shure Incorporated indicated that due to the favorable propagation and other beneficial properties, the spectrum in the UHF band is very important for the operation of wireless microphones. Following the repurposing of the 700 MHz band, the UHF spectrum available for wireless microphones has already been reduced, and users of these systems have incurred costs in order to transition out of the repurposed band.

132. Shure proposed that, in addition to access to spectrum in the duplex gap and guard bands, two clear UHF channels be made available for wireless microphone users in each market area. Furthermore, Shure indicated that due to narrowband operation and tightly controlled out-of-band emissions, it is possible that wireless microphone devices operate in the close proximity to RAS and WMTS in channel 37 without risk of creating interference, so wireless microphones could make the best use of guard bands around channel 37, if such is the case.

133. Furthermore, Shure proposed that the wireless microphones continue to have access to the spectrum in the 600 MHz band, until the commercial carriers truly start operating in their respective area. A geolocation database is suggested as a means to determine the spectrum occupancy by commercial operators.

134. In his comments, Wayne Stacey indicated that in his view a discrepancy exists between the CPC-2-1-28, Voluntary Licensing of Licence-Exempt Low-Power Radio Apparatus in the TV Bands, and the moratorium on accepting "new applications for licensing for low-power apparatus (i.e. wireless microphones and cameras)". To ensure that wireless microphones are protected from interference from to-be-deployed white space devices, Mr. Stacey proposed that either the moratorium be relaxed as far as the wireless microphones are concerned, or alternatively that the users of wireless microphones be permitted to obtain protection from TV white space devices by registering directly with the white space database operators.

Discussion

135. If the 600 MHz band is repurposed for mobile broadband systems, low-power apparatus could not operate in this range, due to mutual interference with mobile broadband systems. The use of low-power apparatus will be permitted to continue until the licensing of the new mobile broadband systems, which is not expected to occur before 2017. As the exact frequency range for the 600 MHz band will only be determined after the conclusion of the US incentive auction, a decision on the new frequency range for the certification and operation of all low-power apparatus will be addressed in a separate consultation process, as mentioned in the consultation paper, after the conclusion of the US incentive auction.

136. The approach to be taken is expected to align with that of the United States, so that wireless microphones and cameras can be built for both markets, taking into consideration mobile services and OTA TV.

8.3 TV White Space (TVWS)

137. The framework for the deployment of TVWS devices in Canada was established through Industry Canada's decision paper SMSE-012-12. As the technical and licensing rules for the deployment of TVWS devices have not yet been finalized, there are currently no deployments in Canada. As TVWS devices are adaptive and operate based on interference avoidance, it is expected that the repurposing of a portion of the UHF TV band would not impact these devices. Although repacking the 600 MHz spectrum band would decrease the amount of TVWS spectrum available, there would still be spectrum available for these devices, especially in rural areas.

9. Changes to the Canadian Table of Frequency Allocations

138. The *Canadian Table of Frequency Allocations* (Canadian Table) establishes the frequency allocations available for radio services in Canada. While the mobile broadband service is expected to be the primary use of the 600 MHz band, Industry Canada proposes to provide flexible licensing in this frequency range, enabling the deployment of any application under the mobile, fixed or broadcasting services.

139. Industry Canada proposed to add co-primary allocations for fixed and mobile services to the frequency ranges 512-608 MHz and 614-698 MHz (corresponding with TV channels 21-51). In the International Table,⁸ these frequency ranges already include co-primary allocations to fixed and mobile services for Canada, as stated in footnotes 5.293 and 5.297.

⁸ Article 5 of the ITU-R *Radio Regulations*, <http://www.itu.int/pub/R-REG-RR/en>.

140. Industry Canada sought comments on this specific question:

Question 9:

Industry Canada is seeking comments on the proposal to update the *Canadian Table of Frequency Allocations* by adding co-primary allocations to fixed and mobile services in the ranges 512-608 MHz and 614-698 MHz.

Summary of Comments

141. While the comments received were generally supportive of the proposal, many commenters suggested that the updates to the Canadian Table be implemented only after the outcome of the US incentive auction is known and confirmed.

Discussion

142. Making the required updates to the Canadian Table after the conclusion of the US incentive auction would allow Industry Canada to determine more precisely and with greater information the frequency ranges where co-primary allocations for mobile and fixed services should be added.

DECISION 11:

In light of the considerations and comments mentioned above, Industry Canada will determine what the required changes are to the Canadian Table, and implement these changes after the US incentive auction results become available.

10. Obtaining Copies

143. All spectrum-related documents referred to in this paper are available on Industry Canada's Spectrum Management and Telecommunications website at <http://www.ic.gc.ca/spectrum>.

144. For further information concerning the decisions outlined in this document or related matters, contact:

Manager, Spectrum Licensing
Spectrum Licensing Policy Branch
Industry Canada
235 Queen Street
Ottawa, Ontario K1A 0H5

Telephone: 613-617-4437
Email: spectrum.auctions@ic.gc.ca

Annex A — List of Canadian TV Stations

Table A1 — Canadian regular power TV stations operating as of August 3, 2015

Province	City	Call Sign	Latitude	Longitude	Channel	Modulation	Rad Center AMSL (m)	ERP (W)	Certificate (or Licence) Holder	Notification Period*
AB	Ashmont	CFRN-TV-4	540807	1113620	12	A	827.5	26650	BELL MEDIA INC.	N/A
AB	Athabasca	CFRN-TV-12	544214	1131723	13	A	690.4	3300	BELL MEDIA INC.	N/A
AB	Bonnyville	CKSA-TV-2	541154	1105031	9	A	765.4	41500	NEWCAP INC.	N/A
AB	Bow Island	CJIL-TV-1	494708	1111929	39	A	939.2	13860	THE MIRACLE CHANNEL ASSOCIATION	1 year
AB	Burmis	CISA-TV-1	493154	1141141	3	A	1452.3	409	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Burmis	CFCN-TV-4	493154	1141141	5	A	1458.1	382	BELL MEDIA INC.	N/A
AB	Calgary	CBRT-DT	510354	1141251	21	D	1497.3	373400	CBC/ RADIO-CANADA	N/A
AB	Calgary	CFCN-DT	510337	1141017	29	D	1341.7	220000	BELL MEDIA INC.	1 year
AB	Calgary	CKCS-DT	510337	1141017	32	D	1341.2	36000	CROSSROADS TELEVISION SYSTEM	1 year
AB	Calgary	CJCO-DT	510421	1141538	38	D	1534	25000	ROGERS BROADCASTING LIMITED	1 year
AB	Calgary	CICT-DT	510421	1141538	41	D	1534	50000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
AB	Calgary	CKAL-DT	510421	1141538	49	D	1534	100000	ROGERS BROADCASTING LIMITED	1 year

AB	Drumheller	CFCN-TV-1	513346	1121948	12	A	1254.3	80000	BELL MEDIA INC.	N/A
AB	Edmonton	CFRN-DT	532258	1131301	12	D	1006	25000	BELL MEDIA INC.	N/A
AB	Edmonton	CITV-DT	532258	1131301	13	D	1006	25000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Edmonton	CKEM-DT	533155	1134653	17	D	987	107000	ROGERS BROADCASTING LIMITED	N/A
AB	Edmonton	CKES-DT	532747	1132007	30	D	891	42000	CROSSROADS TELEVISION SYSTEM	1 year
AB	Edmonton	CBXT-DT	533048	1131706	42	D	939	128560	CBC/ RADIO-CANADA	1 year
AB	Edmonton	CJEO-DT	533155	1134653	44	D	987	58000	ROGERS BROADCASTING LIMITED	1 year
AB	Edmonton	CBXFT-DT	533048	1131706	47	D	870.4	15180	CBC/ RADIO-CANADA	1 year
AB	Grande Prairie	CFRN-TV-1	552757	1184537	13	A	1109.9	64000	BELL MEDIA INC.	N/A
AB	Grouard Mission	CFRN-TV-8	553226	1160730	18	A	783	10000	BELL MEDIA INC.	N/A
AB	Lac La Biche	CFRN-TV-5	544513	1115630	2	A	669.1	8656	BELL MEDIA INC.	N/A
AB	Lethbridge	CISA-DT	494647	1125218	7	D	1109.4	19700	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Lethbridge	CFCN-DT-5	494359	1125740	13	D	1098.5	27000	BELL MEDIA INC.	N/A
AB	Lethbridge	CJIL-DT	494647	1125218	17	D	1044.6	8600	THE MIRACLE CHANNEL ASSOCIATION	N/A
AB	Lethbridge	CKAL-DT-1	494057	1125538	46	D	1122	79000	ROGERS BROADCASTING LIMITED	1 year
AB	Lloydminster	CKSA-DT	532347	1100030	2	D	846.1	8100	NEWCAP INC.	N/A
AB	Lloydminster	CITL-DT	532347	1100030	4	D	846.1	9100	NEWCAP INC.	N/A

AB	Lougheed	CFRN-TV-7	523215	1113110	7	A	934.8	21000	BELL MEDIA INC.	N/A
AB	Medicine Hat	CHAT-TV	500945	1105723	6	A	956	58000	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
AB	Medicine Hat	CFCN-TV-8	500945	1105723	8	A	894.6	24600	BELL MEDIA INC.	N/A
AB	Oyen	CFCN-TV-16	512120	1102302	2	A	869	710	BELL MEDIA INC.	N/A
AB	Peace River	CFRN-TV-2	560847	1172020	3	A	670.9	4300	BELL MEDIA INC.	N/A
AB	Pivot	CHAT-TV-1	502414	1100310	4	A	974.9	4900	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
AB	Red Deer	CKEM-TV-1	521412	1133854	4	A	1142.4	7000	ROGERS BROADCASTING LIMITED	N/A
AB	Red Deer	CFRN-TV-6	521910	1134041	8	A	1183.5	71000	BELL MEDIA INC.	N/A
AB	Red Deer	CITV-DT-1	521635	1134126	28	D	1166.5	132000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
AB	Rocky Mountain House	CFRN-TV-10	523121	1145245	12	A	1176	1600	BELL MEDIA INC.	N/A
AB	Slave Lake	CFRN-TV-9	552818	1144709	4	A	1051.2	840	BELL MEDIA INC.	N/A
AB	Whitecourt	CFRN-TV-3	540155	1154304	12	A	1225	17900	BELL MEDIA INC.	N/A
BC	100 Mile House	CFJC-TV-6	515400	1211535	5	A	1660.8	980	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	100 Mile House	CITM-DT	515410	1211542	21	D	1662	4284	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Bowen Island	CHAN-DT-2	492326	1232243	39	D	509	954	SHAW TELEVISION LIMITED	2 years

									PARTNERSHIP	
BC	Brackendale	CHAN-DT-5	494628	1230748	9	D	463	242	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Burns Lake	CBCY-TV-1	541524	1254042	4	A	1288	597	CBC/ RADIO-CANADA	NA
BC	Burns Lake	CH4333	541522	1254043	7	A	1236	725	BURNS LAKE & DISTRICT REBROADCASTING SOCIETY	N/A
BC	Burns Lake	CKHS-TV	541522	1254043	13	A	1236	63	BURNS LAKE & DISTRICT REBROADCASTING SOCIETY	N/A
BC	Chetwynd	CBCD-TV-2	554006	1213459	7	A	1036.3	55	CBC/ RADIO-CANADA	NA
BC	Chilliwack	CHAN-DT-1	490411	1220138	31	D	600	428	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
BC	Clinton	CFJC-TV-4	510536	1213957	9	A	1998.3	204	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Courtenay	CKVU-TV-1	493536	1250041	5	A	418.7	17700	ROGERS BROADCASTING LIMITED	N/A
BC	Courtenay	CHAN-DT-4	494454	1251458	25	D	1019	4450	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Cranbrook	CFCN-TV-9	492730	1153749	5	A	2213	446	BELL MEDIA INC.	N/A
BC	Dawson Creek	CJDC-TV	554344	1202647	5	A	1072.9	9500	BELL MEDIA INC.	N/A
BC	Enderby	CHBC-TV-5	503356	1190607	16	A	610.5	2400	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Fort St John	CBCD-TV-3	561647	1210233	9	A	912.8	660	CBC/ RADIO-CANADA	NA
BC	Fraser Lake	CFFL-TV-	540159	1243746	9	A	1153	324	FRASER LAKE AND	N/A

		1							DISTRICT REBROADCASTING SOCIETY	
BC	Fraser Valley	CHNU-DT	490347	1221300	47	D	493.5	21400	ZOOMERMEDIA LIMITED	2 years
BC	Grand Forks	CISR-DT- 1	490035	1182329	7	D	629	513	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Houston	CBCY-TV	542632	1263936	2	A	1296	641	CBC/ RADIO- CANADA	NA
BC	Houston	CFHO-TV	542632	1263936	8	A	1276.2	390	HOUSTON- SMITHERS REBROADCASTING SOCIETY	N/A
BC	Kamloops	CFJC-TV	504015	1202355	4	A	920.8	3700	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Kamloops	CHKM-DT	504015	1202355	22	D	914	30000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Kelowna	CHKL-DT	495800	1193144	24	D	1305.8	35000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Kelowna	CHBC-DT	495800	1193144	27	D	1305.8	35000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
BC	Nelson	CKTN-TV- 3	492935	1171619	3	A	867	330	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Oliver	CHBC- TV-3	490600	1193449	8	A	758.1	220	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Oliver/ Osoyoos	CKKM-TV	490815	1194014	3	A	1892.8	930	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Ootsa Lake	CH4467	535214	1260041	5	A	1188	228	BURNS LAKE & DISTRICT REBROADCASTING SOCIETY	N/A

BC	Ootsa Lake	CHHH-TV	535214	1260041	10	A	1203	320	BURNS LAKE & DISTRICT REBROADCASTING SOCIETY	N/A
BC	Ootsa Lake	CHBL-TV	535214	1260041	11	A	1188	162	BURNS LAKE & DISTRICT REBROADCASTING SOCIETY	N/A
BC	Penticton	CHKL-DT-1	493934	1193422	30	D	1338.6	3000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
BC	Penticton	CHBC-DT-1	493934	1193422	32	D	1338.6	3000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
BC	Prince George	CKPG-TV	540247	1225335	2	A	1066.7	8300	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Prince George	CIFG-DT	535448	1222715	29	D	1278	30000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
BC	Prince Rupert	CFTK-TV-1	541704	1301854	6	A	754.6	2440	BELL MEDIA INC.	N/A
BC	Pritchard	CHKM-DT-1	503855	1195018	9	D	634	781	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Quesnel	CITM-DT-2	525300	1222010	8	D	1300.5	569	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Revelstoke	CHKL-DT-3	505307	1181504	7	D	2601	80	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Revelstoke	CHRP-DT-2	505307	1181504	9	D	2601	80	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Salmon Arm	CHBC-TV-4	504522	1192001	9	A	582.1	486	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Santa Rosa	CISR-DT	490130	1180334	44	D	1716.8	2255	SHAW TELEVISION LIMITED	2 years

										PARTNERSHIP	
BC	Smithers	CBCY-TV-2	544427	1265856	5	A	1041	622		CBC/ RADIO-CANADA	NA
BC	Smithers	CFHO-TV-1	544427	1265856	13	A	1075	213		HOUSTON-SMITHERS REBROADCASTING SOCIETY	N/A
BC	Squamish	CHAN-DT-3	493851	1231239	7	D	307.8	428		SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Taghum	CKTN-DT-2	492940	1172719	23	D	990	1450		SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Terrace	CFTK-TV	543104	1282821	3	A	1034.8	13800		BELL MEDIA INC.	N/A
BC	Trail	CKTN-TV	490530	1174914	8	A	1605.9	18000		SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Vancouver	CIVI-DT-2	492116	1225730	17	D	938.1	35000		BELL MEDIA INC.	N/A
BC	Vancouver	CHNM-DT	492126	1225713	20	D	980.9	8300		ROGERS BROADCASTING LIMITED	N/A
BC	Vancouver	CHAN-DT	492126	1225713	22	D	980.9	40000		SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Vancouver	CBUFT-DT	492113	1225723	26	D	930.5	27520		CBC/ RADIO-CANADA	N/A
BC	Vancouver	CIVT-DT	492126	1225713	32	D	1045	33000		BELL MEDIA INC.	1 year
BC	Vancouver	CKVU-DT	492126	1225713	33	D	980.9	8300		ROGERS BROADCASTING LIMITED	1 year
BC	Vancouver	CBUT-DT	492113	1225723	43	D	930.5	103340		CBC/ RADIO-CANADA	1 year
BC	Vernon	CHBC-DT-2	501643	1191857	20	D	837	3900		SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Vernon	CHKL-DT-2	501643	1191857	22	D	837	4000		SHAW TELEVISION LIMITED PARTNERSHIP	N/A

BC	Victoria	CHNU-DT-1	482530	1232013	21	D	119.7	3500	ZOOMERMEDIA LIMITED	N/A
BC	Victoria	CIVI-DT	482530	1232013	23	D	119.7	1500	BELL MEDIA INC.	N/A
BC	Victoria	CKVU-DT-2	482530	1232013	27	D	119.7	2750	ROGERS BROADCASTING LIMITED	1 year
BC	Victoria	CHNM-DT-1	482530	1232013	29	D	119.7	2750	ROGERS BROADCASTING LIMITED	1 year
BC	Victoria	CHEK-DT	484627	1231015	49	D	496	28000	0859291 BC LTD., A.K.A., CHEK MEDIA GROUP	1 year
BC	Whistler	CHAN-DT-7	500843	1225824	9	D	798	348	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Williams Lake	CITM-DT-1	520648	1221116	13	D	973	687	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Wilson Creek	CHAN-DT-6	491319	1240015	23	D	304.4	4300	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
MB	Brandon	CKYB-TV	494005	1000042	4	A	845.2	100000	BELL MEDIA INC.	N/A
MB	Dauphin	CKYD-TV	512814	1004312	12	A	1000.1	140000	BELL MEDIA INC.	N/A
MB	Fisher Branch	CKYA-TV	510450	973857	8	A	389.8	62000	BELL MEDIA INC.	N/A
MB	Flin Flon	CKYF-TV	544717	1015042	13	A	389.5	2060	BELL MEDIA INC.	N/A
MB	Minnedosa	CKND-DT-2	501700	1000639	9	D	957	30500	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
MB	Portage La Prairie	CHMI-DT	495226	974427	13	D	565.8	8300	ROGERS BROADCASTING LIMITED	N/A
MB	The Pas	CKYP-TV	535009	1011512	12	A	317.7	2130	BELL MEDIA INC.	N/A
MB	Thompson	CKYT-TV	554343	975150	9	A	254.3	2185	BELL MEDIA INC.	N/A
MB	Winnipeg	CKY-DT	493448	971005	7	D	507.7	24000	BELL MEDIA INC.	N/A
MB	Winnipeg	CBWT-DT	495343	970817	27	D	371.8	42000	CBC/ RADIO-CANADA	1 year
MB	Winnipeg	CIIT-DT	494520	970753	35	D	472.2	6000	ZOOMERMEDIA	1 year

									LIMITED	
MB	Winnipeg	CKND-DT	495344	970822	40	D	363.6	25100	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
MB	Winnipeg	CBWFT-DT	495343	970817	51	D	371.3	13600	CBC/ RADIO-CANADA	1 year
NB	Campbellton	CKCD-TV	480458	663450	7	A	385.5	1800	BELL MEDIA INC.	N/A
NB	Edmundston	CIMT-DT-1	472316	681901	4	D	376.4	2220	TELE INTER-RIVES LTEE	N/A
NB	Florenceville	CKLT-TV-1	462513	673334	3	A	345.9	35000	BELL MEDIA INC.	N/A
NB	Fredericton	CBAT-DT	455651	663540	31	D	164.6	7570	CBC/ RADIO-CANADA	1 year
NB	Fredericton	CIHF-DT-1	460226	662924	44	D	259	28000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NB	Miramichi	CIHF-DT-13	470321	652920	40	D	172	4400	SHAW TELEVISION LIMITED PARTNERSHIP	2 years
NB	Moncton	CBAFT-DT	460838	645408	11	D	304.3	17750	CBC/ RADIO-CANADA	N/A
NB	Moncton	CIHF-DT-3	454833	644456	27	D	491	86000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NB	Moncton	CKCW-DT	455107	644845	29	D	507.5	390000	BELL MEDIA INC.	1 year
NB	Saint John	CKLT-DT	452839	661359	9	D	552.6	7600	BELL MEDIA INC.	N/A
NB	Saint John	CHNB-DT	452840	661400	12	D	465.3	6000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
NB	St Stephen	CIHF-DT-12	450954	665423	21	D	259.7	2200	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
NB	Upsalquitch	CKAM-TV	472721	662458	12	A	854.9	230000	BELL MEDIA INC.	N/A
NB	Woodstock	CIHF-DT-11	462512	673332	38	D	326.4	4470	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NL	St. John's	CBNT-DT	473204	524721	8	D	354.3	17100	CBC/ RADIO-CANADA	N/A

NL	St. John's	CJON-DT	473132	524248	21	D	333.1	482300	NEWFOUNDLAND BROADCASTING COMPANY LTD.	N/A
NS	Antigonish	CJCB-TV-2	453245	621536	9	A	445.9	260000	BELL MEDIA INC.	N/A
NS	Antigonish	CIHF-DT-15	453834	620729	21	D	363.6	7000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
NS	Bridgewater	CIHF-DT-6	442317	644044	35	D	258	17500	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NS	Caledonia	CJCH-TV-6	442028	650638	6	A	302.7	100000	BELL MEDIA INC.	N/A
NS	Canning	CJCH-TV-1	451212	642403	10	A	302.6	18100	BELL MEDIA INC.	N/A
NS	Halifax	CIHF-DT	443903	633925	8	D	303	1000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
NS	Halifax	CBHT-DT	443903	633925	39	D	329.1	157540	CBC/ RADIO-CANADA	1 year
NS	Halifax	CJCH-DT	443847	633937	48	D	273.9	400000	BELL MEDIA INC.	1 year
NS	Inverness	CJCB-TV-1	460913	612258	6	A	386.5	9400	BELL MEDIA INC.	N/A
NS	Isle Madame	CIMC-TV	453050	610054	10	A	69	1200	TELILE ISLE MADAME COMMUNITY TELEVISION	N/A
NS	Mulgrave	CIHF-DT-16	453556	612444	28	D	215.2	181	SHAW TELEVISION LIMITED PARTNERSHIP	2 years
NS	New Glasgow	CIHF-DT-8	452854	623347	34	D	328.7	3700	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NS	Port Hawkesbury	CJCB-TV-6	453744	611934	3	A	153	15000	BELL MEDIA INC.	N/A
NS	Sheet Harbour	CJCH-TV-5	445533	623001	2	A	127.6	1500	BELL MEDIA INC.	N/A
NS	Shelburne	CIHF-DT-9	434609	652057	28	D	151	11300	SHAW TELEVISION LIMITED	1 year

									PARTNERSHIP	
NS	Sydney	CJCB-TV	460719	601023	4	A	136.4	180000	BELL MEDIA INC.	N/A
NS	Sydney	CIHF-DT-7	460555	601841	36	D	240	65000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NS	Truro	CIHF-DT-4	451835	632001	18	D	260	3500	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
NS	Wolfville	CIHF-DT-5	450239	642119	20	D	322	166000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
NS	Yarmouth	CJCH-TV-7	435456	660516	40	A	189.4	33000	BELL MEDIA INC.	1 year
NS	Yarmouth	CIHF-DT-10	435456	660516	45	D	189.4	4900	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
NT	Hay River	CBEET-1	604828	1154715	7	A	218.2	2565	CBC/ RADIO-CANADA	N/A
NT	Yellowknife	CFYK-DT	622650	1142137	8	D	240.8	2320	CBC/ RADIO-CANADA	N/A
NT	Yellowknife	CH4127	622650	1142137	13	A	233.3	735	ASSOCIATION FRANCO-CULTURELLE DE YELLOWKNIFE	N/A
ON	Bancroft	CIII-TV-2	450334	771159	2	A	733.5	100000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Barrie	CKVR-DT	442105	794154	10	D	586.1	11000	BELL MEDIA INC.	N/A
ON	Belleville	CICO-DT-53	441845	771224	26	D	326.8	13000	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	N/A
ON	Brighton	CKWS-DT-1	440240	774735	30	D	292	938	591987 B.C. LTD.	1 year
ON	Chapleau	CITO-TV-4	475115	832508	9	A	575.2	1550	BELL MEDIA INC.	N/A
ON	Chatham	CICO-DT-59	422658	820501	33	D	404.2	2500	THE ONTARIO EDUCATIONAL COMMUNICATIONS	1 year

									AUTHORITY	
ON	Cloyne	CICO-DT-92	445248	771151	44	D	469.8	12000	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	2 years
ON	Cornwall	CJOH-TV-8	451035	743137	8	A	247.8	260000	BELL MEDIA INC.	N/A
ON	Deseronto	CJOH-TV-6	440830	770433	6	A	300.3	100000	BELL MEDIA INC.	N/A
ON	Elliot Lake	CICI-TV-1	462547	824009	3	A	487	19000	BELL MEDIA INC.	N/A
ON	Fonthill	CKVP-DT	430306	791803	42	D	321.1	5000	BELL MEDIA INC.	2 years
ON	Hamilton	CHCH-DT	431227	794627	15	D	485.5	132000	2190015 ONTARIO INC.	N/A
ON	Hamilton	CHCJ-DT	431354	795133	35	D	281	390000	BELL MEDIA INC.	1 year
ON	Hamilton	CITS-DT	431227	794627	36	D	485.5	473000	CROSSROADS TELEVISION SYSTEM	1 year
ON	Hearst	CITO-TV-3	493850	833050	4	A	411.5	7110	BELL MEDIA INC.	N/A
ON	Huntsville	CKNY-TV-11	451944	785755	11	A	566.7	325000	BELL MEDIA INC.	N/A
ON	Kapuskasing	CITO-TV-1	492328	822127	10	A	337.4	17500	BELL MEDIA INC.	N/A
ON	Kearns	CITO-TV-2	480808	793319	11	A	520	325000	BELL MEDIA INC.	N/A
ON	Kenora	CJBN-TV	494604	943123	13	A	403.1	275	SHAW CABLESYSTEMS LIMITED	N/A
ON	Kingston	CKWS-DT	441002	762539	11	D	393.7	9400	591987 B.C. LTD.	N/A
ON	Kitchener	CKCO-DT	432415	803804	13	D	638	12000	BELL MEDIA INC.	N/A
ON	Kitchener	CICO-DT-28	431541	802641	28	D	579.7	20200	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	1 year
ON	London	CFPL-DT	425659	811552	10	D	561.8	45000	BELL MEDIA INC.	N/A
ON	London	CITS-DT-2	425720	812119	14	D	524	4000	CROSSROADS TELEVISION	N/A

									SYSTEM	
ON	London	CICO-DT-18	425716	812117	18	D	573.2	2400	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	N/A
ON	London	CJMT-DT-1	425720	812119	20	D	454.2	14000	ROGERS BROADCASTING LIMITED	N/A
ON	London	CFMT-DT-1	425720	812119	48	D	454.2	25000	ROGERS BROADCASTING LIMITED	1 year
ON	London	CHCH-DT-2	425027	815129	51	D	515.2	190000	2190015 ONTARIO INC.	1 year
ON	Midland	CIII-DT-7	445814	794657	7	D	550	6750	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Muskoka	CHCH-DT-3	445814	794657	23	D	510	63000	2190015 ONTARIO INC.	N/A
ON	North Bay	CKNY-TV	460348	792602	10	A	477	132600	BELL MEDIA INC.	N/A
ON	North Bay	CFGC-DT-2	461810	792439	15	D	341.5	16800	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	North Bay	CHCH-TV-6	461810	792439	32	A	369.5	5000	2190015 ONTARIO INC.	1 year
ON	Orillia	CFTO-TV-21	445204	793541	21	A	382.4	207600	BELL MEDIA INC.	N/A
ON	Oshawa	CHEX-TV-2	435715	784823	22	A	309	5500	591989 B.C. LTD.	N/A
ON	Ottawa	CJOH-DT	453011	755101	13	D	513	19000	BELL MEDIA INC.	N/A
ON	Ottawa	CIII-DT-6	453011	755101	14	D	529.1	145000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Ottawa	CITY-DT-3	451301	753350	17	D	304.1	5100	ROGERS BROADCASTING LIMITED	N/A
ON	Ottawa	CJMT-DT-2	451301	753350	20	D	291	15000	ROGERS BROADCASTING LIMITED	N/A

ON	Ottawa	CHCH-DT-1	451301	753350	22	D	304.1	25000	2190015 ONTARIO INC.	N/A
ON	Ottawa	CICO-DT-24	453011	755101	24	D	480.9	95000	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	N/A
ON	Ottawa	CBOT-DT	453011	755101	25	D	557.8	311485	CBC/ RADIO-CANADA	N/A
ON	Ottawa	CFMT-DT-2	451301	753350	27	D	291	15000	ROGERS BROADCASTING LIMITED	1 year
ON	Ottawa	CBOFT-DT	453011	755101	33	D	557.8	237696	CBC/ RADIO-CANADA	1 year
ON	Ottawa	CITS-DT-1	451301	753350	42	D	291	37000	CROSSROADS TELEVISION SYSTEM	1 year
ON	Ottawa	CHRO-DT-43	451301	753350	43	D	265.7	50000	BELL MEDIA INC.	1 year
ON	Owen Sound	CIII-DT-4	442645	805959	26	D	407	192000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Paris	CIII-DT	431539	802638	17	D	563.8	165000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Pembroke	CHRO-TV	455002	770949	5	A	306.2	100000	BELL MEDIA INC.	N/A
ON	Pembroke	CJOH-TV-47	455002	770949	47	A	269	492000	BELL MEDIA INC.	1 year
ON	Peterborough	CHEX-DT	441941	781758	12	D	554.8	20000	591987 B.C. LTD.	N/A
ON	Peterborough	CIII-DT-27	440414	780835	27	D	484.8	275000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
ON	Peterborough	CFTO-DT-54	442644	783159	35	D	439.5	38000	BELL MEDIA INC.	1 year
ON	Prescott	CKWS-TV-2	444955	753116	26	A	210	7200	591989 B.C. LTD.	N/A
ON	Sarnia	CKCO-TV-3	424253	820811	42	A	497.6	846000	BELL MEDIA INC.	1 year
ON	Sarnia-Oil Springs	CIII-DT-29	424321	820959	29	D	403	184000	SHAW TELEVISION LIMITED	1 year

									PARTNERSHIP	
ON	Sault Ste Marie	CHBX-TV	463540	842100	2	A	469.4	100000	BELL MEDIA INC.	N/A
ON	Sault Ste Marie	CIII-DT-12	463550	841653	15	D	414.4	6000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Sault Ste Marie	CHCH-TV-5	463550	841653	38	A	391.6	5000	2190015 ONTARIO INC.	1 year
ON	Smiths Falls	CKWS-TV-3	450042	760316	36	A	233.1	10000	591989 B.C. LTD.	1 year
ON	Stevenson	CIII-DT-22	420341	822905	22	D	290.8	49000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Sudbury	CICI-TV	463003	810112	5	A	611.4	100000	BELL MEDIA INC.	N/A
ON	Sudbury	CFGC-DT	463019	805733	11	D	420.6	11700	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Sudbury	CHCH-TV-4	462529	810053	41	A	447.8	35000	2190015 ONTARIO INC.	1 year
ON	Thunder Bay	CKPR-DT	483127	890653	2	D	686.3	1200	THUNDER BAY ELECTRONICS LIMITED	N/A
ON	Thunder Bay	CHFD-DT	483127	890653	4	D	686.3	1200	THUNDER BAY ELECTRONICS LIMITED	N/A
ON	Thunder Bay	CICO-DT-9	483259	891328	9	D	611.1	4500	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	N/A
ON	Timmins	CITO-TV	483250	805708	3	A	429.7	100000	BELL MEDIA INC.	N/A
ON	Timmins	CHCH-TV-7	482812	811749	11	A	431	3300	2190015 ONTARIO INC.	N/A
ON	Timmins	CIII-DT-13	482812	811749	13	D	471	30000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
ON	Toronto	CFTO-DT	433833	792314	9	D	573.6	10800	BELL MEDIA INC.	N/A
ON	Toronto	CICA-DT	433833	792314	19	D	597.8	106500	THE ONTARIO EDUCATIONAL	N/A

									COMMUNICATIONS AUTHORITY	
ON	Toronto	CBLT-DT	433833	792314	20	D	597.8	106900	CBC/ RADIO- CANADA	N/A
ON	Toronto	CBLFT- DT	433833	792314	25	D	597.8	106200	CBC/ RADIO- CANADA	N/A
ON	Toronto	CJMT-DT	433833	792314	40	D	608.1	19500	ROGERS BROADCASTING LIMITED	1 year
ON	Toronto	CIII-DT-41	433833	792314	41	D	608	100000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
ON	Toronto	CITY-DT	433833	792314	44	D	608.1	21000	ROGERS BROADCASTING LIMITED	1 year
ON	Toronto	CFMT-DT	433833	792314	47	D	608.1	22200	ROGERS BROADCASTING LIMITED	1 year
ON	Wawa	CHBX-TV- 1	480113	844500	7	A	539.5	66400	BELL MEDIA INC.	N/A
ON	Wheatley	CHWI-DT	420830	822648	16	D	349.1	3400	BELL MEDIA INC.	N/A
ON	Windsor	CBET-DT	420912	825711	9	D	370.5	26000	CBC/ RADIO- CANADA	N/A
ON	Windsor	CHWI-DT- 60	421858	830224	26	D	277	200	BELL MEDIA INC.	N/A
ON	Windsor	CICO-DT- 32	420912	825711	32	D	400.2	19000	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY	1 year
ON	Wingham	CKNX-TV	440526	811225	8	A	540.4	260000	BELL MEDIA INC.	N/A
ON	Woodstock	CITY-DT- 2	430246	804604	31	D	588.2	20000	ROGERS BROADCASTING LIMITED	1 year
PE	Charlottetown	CKCW- DT-1	461601	632028	8	D	198	9600	BELL MEDIA INC.	N/A
PE	Charlottetown	CBCT-DT	461244	632029	13	D	304.5	13030	CBC/ RADIO- CANADA	N/A
PE	Charlottetown	CIHF-DT- 14	462152	632436	42	D	199	6400	SHAW TELEVISION LIMITED	1 year

									PARTNERSHIP	
PE	St Edward	CKCW-TV-2	465334	640853	5	A	117.9	1100	BELL MEDIA INC.	N/A
QC	Baie-Comeau	CFTF-DT-5	491401	680825	9	D	175	727	TELEVISION MBS INC.	N/A
QC	Baie-Trinité	CIVF-DT	492328	672815	12	D	266.7	46000	SOCIETE TELE-QUEBEC	N/A
QC	Bearn/Fabre	CKRN-TV-3	471516	792237	3	A	414.5	3640	RNC MEDIA INC.	N/A
QC	Carleton	CHAU-DT	480808	660704	5	D	633.4	9850	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Carleton	CIVK-DT	480808	660658	15	D	604.4	140000	SOCIETE TELE-QUEBEC	N/A
QC	Carleton	CFTF-DT-11	480808	660704	44	D	569	26000	TELEVISION MBS INC.	1 year
QC	Chandler	CHAU-DT-4	482122	644103	26	D	68.4	184	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Chapeau	CIVP-DT	455529	770422	23	D	285.6	758	TELE-QUEBEC	N/A
QC	Chicoutimi	CJPM-DT	482428	710504	46	D	231.8	200000	GROUPE TVA INC.	1 year
QC	Cloridorme	CHAU-DT-8	491127	645327	11	D	179	110	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Forestville	CFTF-DT-4	484832	690026	4	D	224	1900	TELEVISION MBS INC.	N/A
QC	Gascons	CIVK-DT-1	481241	645214	32	D	281.9	180000	SOCIETE TELE-QUEBEC	2 years
QC	Gaspé	CHAU-DT-6	485015	642932	7	D	191.9	103	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Gaspé	CIVK-DT-3	485001	641524	35	D	454	550	SOCIETE TELE-QUEBEC	1 year
QC	Gatineau	CIVO-DT	453011	755101	30	D	501.3	300200	TELE-QUEBEC	1 year
QC	Gatineau	CFGS-DT	453011	755101	34	D	501.3	30000	RNC MEDIA INC.	1 year
QC	Gatineau	CHOT-DT	453011	755101	40	D	501.3	111400	RNC MEDIA INC.	1 year
QC	Grand-Fonds	CIVB-DT-1	474647	700908	31	D	935.5	95000	SOCIETE TELE-QUEBEC	2 years

QC	Joutel	CJDG-TV-3	492720	781951	11	A	443.5	781	RNC MEDIA INC.	N/A
QC	L'Anse-a-Valleau	CHAU-DT-9	490427	643212	12	D	181	75	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Matagami	CJDG-TV-4	494403	774044	9	A	346	364	RNC MEDIA INC.	N/A
QC	Montréal	CFTM-DT	453020	733530	10	D	326	11000	GROUPE TVA INC.	N/A
QC	Montréal	CFCF-DT	453020	733530	12	D	327	10600	BELL MEDIA INC.	N/A
QC	Montréal	CKMI-DT-1	453020	733530	15	D	327	8000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
QC	Montréal	CBFT-DT	453020	733530	19	D	327	447820	CBC/ RADIO-CANADA	N/A
QC	Montréal	CBMT-DT	453020	733530	21	D	327	436340	CBC/ RADIO-CANADA	N/A
QC	Montréal	CIVM-DT	453334	733309	26	D	200	269000	SOCIETE TELE-QUEBEC	N/A
QC	Montréal	CFTU-DT	453011	733656	29	D	226.6	910	CANAL SAVOIR	1 year
QC	Montréal	CFJP-DT	453020	733530	35	D	327	17710	V INTERACTIONS INC.	1 year
QC	Montréal	CFHD-DT	453012	733547	47	D	224	5500	4517466 CANADA INC.	1 year
QC	Montréal	CJNT-DT	453018	733528	49	D	246	4000	ROGERS BROADCASTING LIMITED	1 year
QC	Percé	CHAU-DT-5	483136	641437	11	D	427.9	10375	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Percé	CIVK-DT-2	483138	641437	40	D	445	600	SOCIETE TELE-QUEBEC	2 years
QC	Québec	CIVQ-DT	464827	711300	15	D	262.5	194000	SOCIETE TELE-QUEBEC	N/A
QC	Québec	CFCM-DT	464704	711552	17	D	181.5	210000	GROUPE TVA INC.	N/A
QC	Québec	CKMI-DT	464922	712943	20	D	573	18000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
QC	Québec	CBVT-DT	464922	712943	25	D	642.4	291000	CBC/ RADIO-	N/A

									CANADA	
QC	Québec	CFAP-DT	464827	711300	39	D	245	20100	V INTERACTIONS INC.	1 year
QC	Rimouski	CFER-DT	482802	681239	11	D	627.6	3300	GROUPE TVA INC.	N/A
QC	Rimouski	CJPC-DT	482538	682914	18	D	230	360	TELEVISION MBS INC.	N/A
QC	Rimouski	CIVB-DT	482802	681239	22	D	648.9	136000	SOCIETE TELE-QUEBEC	N/A
QC	Rimouski	CJBR-DT	481941	685006	45	D	370.9	167540	CBC/ RADIO-CANADA	1 year
QC	Rivière-au-Renard	CHAU-DT-7	485951	642553	4	D	361.2	990	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Rivière-du-Loup	CKRT-DT	473437	692258	7	D	712	7000	CKRT-TV LTEE	N/A
QC	Rivière-du-Loup	CIMT-DT	473438	692256	9	D	722.3	27500	TELE INTER-RIVES LTEE	N/A
QC	Rivière-du-Loup	CFTF-DT	473438	692256	29	D	701.2	44000	TELEVISION MBS INC.	1 year
QC	Roberval	CJPM-TV-1	482320	720520	10	A	402.3	23500	GROUPE TVA INC.	N/A
QC	Rouyn-Noranda	CIVA-DT-1	481551	790239	8	D	532.5	19000	TELE-QUEBEC	N/A
QC	Rouyn-Noranda	CKRN-DT	481551	790239	9	D	532.5	19000	RNC MEDIA INC.	N/A
QC	Rouyn-Noranda	CFEM-DT	481551	790239	13	D	532.5	22000	RNC MEDIA INC.	N/A
QC	Rouyn-Noranda	CFVS-DT-1	481551	790239	20	D	477.5	32000	RNC MEDIA INC.	N/A
QC	Saguenay	CIVV-DT	483604	704944	8	D	1071.4	84900	SOCIETE TELE-QUEBEC	N/A
QC	Saguenay	CKTV-DT	483604	704944	12	D	1076.4	7100	CBC/ RADIO-CANADA	N/A
QC	Saguenay	CFRS-DT	483604	704944	13	D	1071.4	4344	V INTERACTIONS INC.	N/A
QC	Sept-Iles	CFER-TV-2	501019	664417	5	A	419.6	100000	GROUPE TVA INC.	N/A
QC	Sept-Iles	CFTF-DT-7	501019	664415	7	D	366.5	743	TELEVISION MBS INC.	N/A

QC	Sept-Iles	CIVG-DT	501018	664416	9	D	358.1	19000	SOCIETE TELE-QUEBEC	N/A
QC	Sherbrooke	CHLT-DT	451843	721430	7	D	881	4000	GROUPE TVA INC.	N/A
QC	Sherbrooke	CKSH-DT	451843	721430	9	D	877.2	36280	CBC/ RADIO-CANADA	N/A
QC	Sherbrooke	CKMI-DT-2	451843	721430	11	D	902.9	1000	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
QC	Sherbrooke	CIVS-DT	451843	721430	24	D	881.6	60000	SOCIETE TELE-QUEBEC	N/A
QC	Sherbrooke	CFKS-DT	451843	721430	30	D	881.6	4630	V INTERACTIONS INC.	1 year
QC	Ste-Marguerite-Marie	CHAU-DT-1	481841	670503	3	D	554.7	1567	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Trois-Rivières	CHEM-DT	463007	723809	8	D	385.7	11500	GROUPE TVA INC.	N/A
QC	Trois-Rivières	CKTM-DT	463007	723810	28	D	407	48402	CBC/ RADIO-CANADA	1 year
QC	Trois-Rivières	CFKM-DT	462927	723858	34	D	486.3	9000	V INTERACTIONS INC.	1 year
QC	Trois-Rivières	CIVC-DT	462927	723858	45	D	489.6	290000	SOCIETE DE TELEDIFFUSION DU QUEBEC	1 year
QC	Val d'Or	CJDG-DT	482517	775048	7	D	557.3	21500	RNC MEDIA INC.	N/A
QC	Val d'Or	CFEM-DT-1	482517	775048	10	D	557.3	22000	RNC MEDIA INC.	N/A
QC	Val d'Or	CIVA-DT	482517	775048	12	D	557.3	22000	TELE-QUEBEC	N/A
QC	Val d'Or	CFVS-DT	482517	775048	25	D	539.1	52000	RNC MEDIA INC.	N/A
SK	Alticane	CIPA-TV-1	531205	1073053	10	A	905.3	46900	BELL MEDIA INC.	N/A
SK	Big River	CIPA-TV-2	534940	1070146	7	A	578.2	205	BELL MEDIA INC.	N/A
SK	Carlyle Lake	CIEW-TV	494837	1024116	7	A	1065.5	170000	BELL MEDIA INC.	N/A
SK	Colgate	CKCK-TV-1	492616	1034755	12	A	752.2	84800	BELL MEDIA INC.	N/A
SK	Fort Qu'Appelle	CKCK-TV-7	504700	1034705	7	A	597.4	241	BELL MEDIA INC.	N/A

SK	Golden Prairie	CKMC-TV-1	501220	1093546	10	A	911.3	229000	BELL MEDIA INC.	N/A
SK	Hudson Bay	CICC-TV-3	525115	1022928	11	A	451.4	680	BELL MEDIA INC.	N/A
SK	Melfort	CKBQ-TV	525022	1041909	2	A	627.9	15500	BELL MEDIA INC.	N/A
SK	Moose Jaw	CKMJ-TV	503843	1054609	7	A	831.2	98000	BELL MEDIA INC.	N/A
SK	Nipawin	CKBQ-TV-1	532007	1040857	12	A	530.4	11600	BELL MEDIA INC.	N/A
SK	Norquay	CICC-TV-2	520300	1020320	7	A	628.2	69000	BELL MEDIA INC.	N/A
SK	North Battleford	CFQC-TV-2	524539	1083355	6	A	740.7	30300	BELL MEDIA INC.	N/A
SK	Prince Albert	CIPA-TV	530327	1055035	9	A	673.6	325000	BELL MEDIA INC.	N/A
SK	Regina	CKCK-DT	502659	1043005	8	D	779.9	23000	BELL MEDIA INC.	N/A
SK	Regina	CBKT-DT	502858	1043023	9	D	807.8	60000	CBC/ RADIO-CANADA	N/A
SK	Regina	CFRE-DT	503544	1050412	11	D	858.4	17400	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
SK	Regina	CBKFT-DT	502858	1043023	13	D	784.3	27100	CBC/ RADIO-CANADA	N/A
SK	Saskatoon	CFQC-DT	521130	1062315	8	D	790.6	13000	BELL MEDIA INC.	N/A
SK	Saskatoon	CFSK-DT	521028	1062607	42	D	720.4	30000	SHAW TELEVISION LIMITED PARTNERSHIP	1 year
SK	Stranraer	CFQC-TV-1	514055	1083048	3	A	937.4	100000	BELL MEDIA INC.	N/A
SK	Swift Current	CKMC-TV	501831	1075238	12	A	938.5	100000	BELL MEDIA INC.	N/A
SK	Willow Bunch	CKCK-TV-2	492103	1053808	6	A	1062.6	52700	BELL MEDIA INC.	N/A
SK	Wynyard	CIWH-TV	514230	1041758	12	A	757.4	140000	BELL MEDIA INC.	N/A
SK	Yorkton	CICC-TV	511233	1024401	10	A	666	56000	BELL MEDIA INC.	N/A

*Notification period applicable for TV undertakings currently operating in the to-be-repurposed 600 MHz band (see paragraphs 96 and 114).

Table A2 — Applications for broadcast certificates for regular power TV stations under consideration as of August 3, 2015
(The fields below have intentionally been left blank.)

Province	City	Call Sign	Latitude	Longitude	Channel	Modulation	Rad Center AMSL (m)	ERP (W)	Certificate (or Licence) Holder	Notification Period*
AB	Calgary									
AB	Edmonton									

*Notification period applicable for TV undertakings currently operating in the to-be-repurposed 600 MHz band (see paragraphs 96 and 114).

Table A3 — Canadian low-power TV stations operating as of August 3, 2015

Province	City	Call Sign	Latitude	Longitude	Channel	Modulation	Rad Center AMSL (m)	ERP (W)	Certificate (or Licence) Holder	Notification Period*
AB	Banff	CFCN-TV-2	511153	1153647	7	A	2139.7	70	BELL MEDIA INC.	N/A
AB	Banff	CICT-TV-2	511153	1153647	13	A	2142.7	10	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Brooks	CISA-TV-2	503203	1115500	3	A	827.5	14	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Brooks	CFCN-TV-3	503203	1115500	9	A	807.7	60	BELL MEDIA INC.	N/A
AB	Canmore	CFCN-TV-14	510750	1152310	45	A	1415.6	780	BELL MEDIA INC.	1 year
AB	Cardston	CFSO-TV	491040	1131940	32	A	1191	89	LOGAN MCCARTHY, OPERATING AS BRIGHT IDEAS DESIGN	1 year
AB	Chateh	CH4301	584206	1184114	11	A	356.4	4	DENE THA' COMMUNICATION SOCIETY	N/A
AB	Chateh	CKCA-TV	584206	1184114	13	A	356.4	4	DENE THA' COMMUNICATION	N/A

									SOCIETY	
AB	Coleman	CFCN-TV-18	493642	1142452	8	A	1714.5	38	BELL MEDIA INC.	N/A
AB	Coleman	CISA-TV-3	493439	1143006	12	A	2022.3	48	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Drumheller	CICT-TV-1	512701	1124410	8	A	826	66	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Drumheller	CFCN-TV-6	512530	1124234	10	A	878	28	BELL MEDIA INC.	N/A
AB	Jasper	CFRN-TV-11	525242	1180427	11	A	1083.4	44	BELL MEDIA INC.	N/A
AB	Pigeon Mountain	CFCN-TV-13	510204	1151234	40	A	2206.1	270	BELL MEDIA INC.	2 years
AB	Pincher Creek	CISA-TV-5	492848	1135801	9	A	1207	8	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
AB	Waterton Park	CFCN-TV-17	490331	1135442	6	A	1367.1	52	BELL MEDIA INC.	N/A
AB	Waterton Park	CISA-TV-4	490332	1135423	12	A	1366.6	59	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Abbotsford	CFEG-TV	490307	1222029	19	A	73	50	CLEARBROOK MENNONITE BRETHREN CHURCH	N/A
BC	Allison Creek	CH4292	492925	1202444	8	A	1375	4	TWIN VALLEYS TV ASSOCIATION	N/A
BC	Allison Creek	CH4293	492925	1202444	12	A	1375	4	TWIN VALLEYS TV ASSOCIATION	N/A
BC	Anahim Lake	CIAL-TV-1	522059	1251915	5	A	1386.8	7	ANAHIM LAKE COMMUNITY ASSOCIATION	N/A
BC	Apex Mountain	CHNJ-TV-1	492138	1195439	11	A	2232.6	10	THE TULCOAL UNITY CLUB	N/A
BC	Apex Mountain	CHBC-TV-9	492134	1195434	13	A	2251	12	SHAW TELEVISION LIMITED PARTNERSHIP	N/A

BC	Ashcroft	CHAC-TV-2	504430	1211635	2	A	438.9	63	ASH CREEK TELEVISION SOCIETY	N/A
BC	Ashcroft	CH4472	504430	1211635	4	A	442	74	ASH CREEK TELEVISION SOCIETY	N/A
BC	Ashcroft	CJAC-TV-2	504430	1211635	5	A	438.9	60	ASH CREEK TELEVISION SOCIETY	N/A
BC	Ashcroft	CH4327	504430	1211635	38	A	447	107	ASH CREEK TELEVISION SOCIETY	1 year
BC	Avola	CH2557	514658	1191922	11	A	604	4	THOMPSON-NICOLA REGIONAL DISTRICT	N/A
BC	Bald Mountain	CH4427	512605	1240109	2	A	1346	6	NEMAHIAH VALLEY RECREATION COMMISSION	N/A
BC	Becher Bay	CH4388	482051	1233553	17	A	130	60	ALTER-NATIVE OPTIONS SOCIETY	N/A
BC	Blackpool	CH5665	513459	1200842	5	A	682	50	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Blackpool	CH5666	513459	1200842	6	A	682	50	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Blackpool	CH5667	513459	1200842	13	A	682	50	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Blaeberry	CHCE-TV-1	512333	1170030	2	A	973.2	7	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Blaeberry	CHCE-TV-2	512333	1170030	4	A	973.2	7	COLUMBIA ELECTORAL AREA 'A' TELEVISION	N/A

									REBROADCASTING SOCIETY	
BC	Blaeberry	CHCE-TV-3	512333	1170030	5	A	973.2	7	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Bralorne	CH4297	504703	1224933	2	A	1093	5	THE BRALORNE T.V. SOCIETY	N/A
BC	Bralorne	CH4298	504703	1224933	5	A	1091	5	THE BRALORNE T.V. SOCIETY	N/A
BC	Bralorne	CH4299	504703	1224933	8	A	1091	5	THE BRALORNE T.V. SOCIETY	N/A
BC	Bralorne	CH4314	504703	1224933	10	A	1089	5	THE BRALORNE T.V. SOCIETY	N/A
BC	Bralorne	CH4300	504703	1224933	13	A	1089	5	THE BRALORNE T.V. SOCIETY	N/A
BC	Brisco	CIBR-TV	505030	1161934	11	A	862.5	15	BRISCO RECREATION COMMISSION	N/A
BC	Bullhead Mountain	CJDC-TV-2	560241	1220759	8	A	1118.5	62	BELL MEDIA INC.	N/A
BC	Burns Lake	CH4376	541522	1254043	21	A	1236	4	BURNS LAKE & DISTRICT REBROADCASTING SOCIETY	N/A
BC	Cache Creek	CH4473	504820	1211905	8	A	635	49	ASH CREEK TELEVISION SOCIETY	N/A
BC	Cache Creek	CJAC-TV-1	504820	1211905	10	A	621.8	30	ASH CREEK TELEVISION SOCIETY	N/A
BC	Cache Creek	CHAC-TV-1	504820	1211905	12	A	621.8	20	ASH CREEK TELEVISION SOCIETY	N/A
BC	Cache Creek	CH4328	504820	1211905	24	A	655	40	ASH CREEK TELEVISION SOCIETY	N/A
BC	Campbell Road	CHCX-TV	511142	1165143	22	A	990.8	28	COLUMBIA ELECTORAL AREA	N/A

									'A' TELEVISION REBROADCASTING SOCIETY	
BC	Campbell Road	CHCY-TV	511142	1165143	25	A	990.8	28	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Campbell Road	CHCZ-TV	511142	1165143	28	A	990.8	28	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	2 years
BC	Canoe	CHBC- TV-8	504345	1191239	6	A	649.2	38	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Canyon Creek	CH2055	511454	1165651	2	A	898.9	4	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Canyon Creek	CH2059	511454	1165651	4	A	898.9	4	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Canyon Creek	CH2060	511454	1165651	5	A	898.9	4	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Castlegar	CKTN-TV- 1	491850	1173734	5	A	685.8	30	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Chase	CFJC-TV- 8	505400	1193839	11	A	1063.7	29	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Chase	CHSH- TV-2	505407	1193824	13	A	1053	18	JIM PATTISON BROADCAST	N/A

									GROUP LIMITED PARTNERSHIP	
BC	Cherryville	CH4347	501510	1183530	8	A	914	81	CHERRYVILLE COMMUNITY CLUB	N/A
BC	Cherryville	CJWR-TV-1	501510	1183530	10	A	914.4	60	CHERRYVILLE COMMUNITY CLUB	N/A
BC	Cherryville	CJCC-TV	501510	1183530	13	A	914.4	60	CHERRYVILLE COMMUNITY CLUB	N/A
BC	Chetwynd	CH2383	554007	1213457	2	A	1021.2	17	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Chetwynd	CH2385	554007	1213457	4	A	1021.2	17	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Chetwynd	CH2384	554007	1213457	12	A	1021.2	17	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Chetwynd	CH4149	554007	1213457	39	A	1026.1	250	CHETWYND COMMUNICATIONS SOCIETY	1 year
BC	Chetwynd	CH4147	554007	1213457	43	A	1026.1	250	CHETWYND COMMUNICATIONS SOCIETY	1 year
BC	Chetwynd	CH4146	554007	1213457	46	A	1026.1	250	CHETWYND COMMUNICATIONS SOCIETY	1 year
BC	Chetwynd	CH4334	554007	1213457	49	A	1026.1	250	CHETWYND COMMUNICATIONS SOCIETY	1 year
BC	Chetwynd	CH4148	554007	1213457	52	A	1026.1	250	CHETWYND COMMUNICATIONS SOCIETY	1 year
BC	Chetwynd	CHET-TV	554007	1213457	55	A	1026.1	250	CHETWYND COMMUNICATIONS SOCIETY	1 year
BC	Clearwater	CHCW-TV-1	513655	1200228	2	A	1152	68	THOMPSON VALLEY TELEVISION SOCIETY	N/A

BC	Clearwater	CH5663	513655	1200228	8	A	1152	12	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Clearwater	CHCW-TV-2	513655	1200228	10	A	1152	78	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Clinton	CH2040	510533	1213504	7	A	900	5	CLINTON AND DISTRICT TV SOCIETY	N/A
BC	Clinton	CH2041	510533	1213504	11	A	900	23	CLINTON AND DISTRICT TV SOCIETY	N/A
BC	Clinton	CHTS-TV-1	510530	1213950	13	A	1932.4	80	CLINTON AND DISTRICT TV SOCIETY	N/A
BC	Coalmont	CFCU-TV	493106	1204414	5	A	1283	1	THE TULCOAL UNITY CLUB	N/A
BC	Coalmont	CFTB-TV	493106	1204414	8	A	1283	2	THE TULCOAL UNITY CLUB	N/A
BC	Coalmont	CH4416	493106	1204414	10	A	1283	6	THE TULCOAL UNITY CLUB	N/A
BC	Coldwater I R #1	CH4315	500147	1205118	7	A	762	22	COLDWATER DEVELOPMENT INC.	N/A
BC	Coldwater I R #1	CH4277	500147	1205118	9	A	762	22	COLDWATER DEVELOPMENT INC.	N/A
BC	Coldwater I R #1	CH4278	500147	1205118	13	A	762	22	COLDWATER DEVELOPMENT INC.	N/A
BC	Cortes Island	CH4373	500552	1245741	4	A	229.5	16	SOUTHERN CORTES COMMUNITY ASSOCIATION	N/A
BC	Crescent Valley	CH5643	492916	1173236	39	A	1571.7	227	SLOCAN VALLEY TV SOCIETY	2 years
BC	Crescent Valley	CH5644	492916	1173236	43	A	1571.7	227	SLOCAN VALLEY TV SOCIETY	2 years

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BC	Crescent Valley	CH5645	492916	1173236	47	A	1571.7	227	SLOCAN VALLEY TV SOCIETY	2 years
BC	Crescent Valley	CH5646	492916	1173236	51	A	1571.7	227	SLOCAN VALLEY TV SOCIETY	2 years
BC	Creston	CKTN-TV-4	490525	1162249	12	A	2150.4	50	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	D'Arcy	CH4575	503245	1222805	3	A	374.5	26	ANDERSON LAKE RECREATIONAL & CULTURAL SOCIETY	N/A
BC	D'Arcy	CH4576	503245	1222805	5	A	371	26	ANDERSON LAKE RECREATIONAL & CULTURAL SOCIETY	N/A
BC	Dawson Creek	CFSN-TV	554340	1202640	8	A	978.4	80	DAWSON CREEK HYPERVISTA COMMUNICATIONS ASSOCIATION	N/A
BC	Dawson Creek	CH2061	554452	1200235	20	A	883.6	1056	CHERRY POINT COMMUNITY PROMOTION ASSOCIATION	N/A
BC	Donald Station	CH4445	512941	1171024	8	A	823.3	33	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Donald Station	CH4446	512941	1171024	10	A	823.3	33	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Donald Station	CH4447	512941	1171024	12	A	823.3	33	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Donald Station	CH4448	512941	1171024	19	A	823.3	33	COLUMBIA ELECTORAL AREA	N/A

									'A' TELEVISION REBROADCASTING SOCIETY	
BC	Endako	CH2030	540218	1250633	3	A	1091	245	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	N/A
BC	Endako	CH4303	540218	1250633	29	A	1086.4	355	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	2 years
BC	Endako	CH4304	540218	1250633	31	A	1089	355	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	2 years
BC	Endako	CH4337	540218	1250633	33	A	1091	275	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	2 years
BC	Endako	CH2031	540218	1250633	39	A	1101	316	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	2 years
BC	Endako	CH2032	540218	1250633	44	A	1101	316	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	2 years
BC	Enderby	CFEN-TV- 1	503345	1190614	4	A	594.3	14	ENDERBY TELEVISION SYNDICATE	N/A
BC	Enderby	CFEN-TV- 2	503345	1190614	11	A	594.3	53	ENDERBY TELEVISION SYNDICATE	N/A
BC	Enderby	CH4412	503404	1190551	47	A	930	188	ENDERBY TELEVISION SYNDICATE	1 year
BC	Fernie	CFCN-TV- 10	493025	1150403	3	A	1024.1	23	BELL MEDIA INC.	N/A
BC	Fort Babine	CH4117	551905	1263726	6	A	751.7	1	FORT BABINE EDUCATION	N/A

									SOCIETY	
BC	Fort Babine	CH4118	551905	1263726	7	A	753.1	1	FORT BABINE EDUCATION SOCIETY	N/A
BC	Fort Babine	CH4119	551905	1263726	9	A	754	1	FORT BABINE EDUCATION SOCIETY	N/A
BC	Fort Babine	CH4120	551905	1263726	11	A	755.4	1	FORT BABINE EDUCATION SOCIETY	N/A
BC	Fort Fraser	CH4433	540159	1243746	19	A	1156	251	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	N/A
BC	Fort Fraser	CH2024	540159	1243746	23	A	1148	316	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	N/A
BC	Fort Fraser	CH2025	540159	1243746	49	A	1148	316	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	2 years
BC	Fort St James	CH3034	542506	1241754	3	A	719	89	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH3035	542605	1243248	4	A	1279.6	2	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH3036	542605	1243248	5	A	1279.6	2	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH3037	542605	1243248	6	A	1279.6	2	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH2926	542605	1243248	8	A	1277.8	7	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH3038	542605	1243248	9	A	1277.8	7	FORT ST JAMES TELEVISION SOCIETY	N/A

									SOCIETY	
BC	Fort St James	CH3039	542605	1243248	10	A	1277.8	7	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH3040	542605	1243248	11	A	1277.8	7	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH2927	542605	1243248	12	A	1277.8	7	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH3041	542605	1243248	13	A	1277.8	7	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Fort St James	CH6455	542635	1241333	46	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6495	542635	1241333	48	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6456	542635	1241333	50	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6496	542635	1241333	52	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6457	542635	1241333	54	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6497	542635	1241333	56	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6498	542635	1241333	58	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6458	542635	1241333	60	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6459	542635	1241333	62	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year

									SOCIETY	
BC	Fort St James	CH6499	542635	1241333	64	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6460	542635	1241333	66	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fort St James	CH6461	542635	1241333	68	A	929.6	87	FORT ST JAMES TELEVISION SOCIETY	1 year
BC	Fraser Lake	CH2308	540159	1243746	15	A	1158	232	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	N/A
BC	Fraser Lake	CH2309	540159	1243746	17	A	1160	232	FRASER LAKE AND DISTRICT REBROADCASTING SOCIETY	N/A
BC	Granisle	CH4469	545303	1261255	2	A	817	2	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH4470	545303	1261255	3	A	817	2	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2793	545303	1261255	4	A	817	2	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH4471	545303	1261255	5	A	817	2	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2794	545303	1261255	6	A	817	2	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH4088	545303	1261255	7	A	817	4	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2795	545303	1261255	8	A	817	4	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2796	545303	1261255	9	A	817	14	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2797	545303	1261255	10	A	817	4	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2798	545303	1261255	11	A	817	26	GRANISLE T.V. SOCIETY	N/A
BC	Granisle	CH2799	545303	1261255	12	A	817	3	GRANISLE T.V. SOCIETY	N/A

									SOCIETY	
BC	Granisle	CH2800	545303	1261255	13	A	817	3	GRANISLE T.V. SOCIETY	N/A
BC	Green Lake	CH2042	512246	1211435	7	A	1235	77	CLINTON AND DISTRICT TV SOCIETY	N/A
BC	Green Lake	CH2043	512246	1211435	12	A	1235	77	CLINTON AND DISTRICT TV SOCIETY	N/A
BC	Hagensborg	CH4577	522415	1262825	8	A	153.6	82	HAGENSBERG T.V. SOCIETY	N/A
BC	Hagensborg	CH4578	522415	1262825	9	A	153.6	82	HAGENSBERG T.V. SOCIETY	N/A
BC	Hagensborg	CH4579	522415	1262825	10	A	153.6	82	HAGENSBERG T.V. SOCIETY	N/A
BC	Hagensborg	CH4580	522415	1262825	12	A	153.6	82	HAGENSBERG T.V. SOCIETY	N/A
BC	Hagensborg	CH5330	522415	1262825	13	A	153.6	82	HAGENSBERG T.V. SOCIETY	N/A
BC	Hasler Flats	CH2524	553536	1215837	15	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Hasler Flats	CH2522	553536	1215837	17	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Hasler Flats	CH2523	553536	1215837	19	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Hasler Flats	CH4236	553536	1215837	21	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Hasler Flats	CH4237	553536	1215837	23	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Hasler Flats	CH4238	553536	1215837	25	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	N/A
BC	Hasler Flats	CH4477	553536	1215837	27	A	656.2	78	CHETWYND COMMUNICATIONS	2 years

									SOCIETY	
BC	Hasler Flats	CH4239	553536	1215837	29	A	656.2	78	CHETWYND COMMUNICATIONS SOCIETY	2 years
BC	Hasler Flats	CH2065	553536	1215837	31	A	656.2	47	CHETWYND COMMUNICATIONS SOCIETY	2 years
BC	Hasler Flats	CHET-TV-1	553536	1215837	33	A	656.2	51	CHETWYND COMMUNICATIONS SOCIETY	2 years
BC	Hazelton	CH2014	551211	1274148	4	A	478	44	SKEENA TV ASSOCIATION	N/A
BC	Hazelton	CH4397	551211	1274148	12	A	478	44	SKEENA TV ASSOCIATION	N/A
BC	Hixon	CH4405	532437	1223417	6	A	601	9	HIXON COMMUNITY ASSOCIATION	N/A
BC	Hixon	CKPG-TV-1	532843	1223805	10	A	858.6	365	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Houston	CH4443	542632	1263936	18	A	1249	220	HOUSTON-SMITHERS REBROADCASTING SOCIETY	N/A
BC	Hudson Hope	CJDC-TV-1	560142	1215638	11	A	701.1	63	BELL MEDIA INC.	N/A
BC	Invermere	CFWL-TV-1	502917	1155710	8	A	1094.5	92	BELL MEDIA INC.	N/A
BC	Keremeos/Olalla	CHKC-TV-2	491335	1194819	6	A	868.6	36	KEREMEOS-CAWSTON-OLALLA TELEVISION SOCIETY	N/A
BC	Keremeos/Olalla	CHKC-TV-1	491114	1194139	9	A	1239	18	KEREMEOS-CAWSTON-OLALLA TELEVISION SOCIETY	N/A
BC	Keremeos/Olalla	CHKC-TV-5	491335	1194819	11	A	868.6	38	KEREMEOS-CAWSTON-OLALLA	N/A

									TELEVISION SOCIETY	
BC	Keremeos/ Olalla	CH4568	491114	1194139	22	A	1146	85	KEREMEOS- CAWSTON-OLALLA TELEVISION SOCIETY	N/A
BC	Keremeos/ Olalla	CH4319	491341	1194819	26	A	891	92	KEREMEOS- CAWSTON-OLALLA TELEVISION SOCIETY	N/A
BC	Lillooet/ Riley Creek	CH5568	503653	1215247	2	A	858	19	LILLOOET- CAMELSFOOT T.V. ASSOCIATION	N/A
BC	Logan Lake	CH3082	503004	1204851	5	A	1183	42	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2512	503004	1204851	7	A	1189	18	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2513	503004	1204851	9	A	1189	18	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2514	503004	1204851	11	A	1189	18	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2515	503004	1204851	13	A	1189	18	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2516	503004	1204851	14	A	1198	240	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH5530- DT	503001	1204847	16	D	1203	228	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2518	503004	1204851	18	A	1198	240	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH5531- DT	503001	1204847	20	D	1203	228	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH5532- DT	503001	1204847	24	D	1203	228	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH2519	503004	1204851	26	A	1198	240	LOGAN LAKE TV SOCIETY	N/A
BC	Logan Lake	CH5533- DT	503001	1204847	28	D	1203	228	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH2520	503004	1204851	30	A	1198	240	LOGAN LAKE TV SOCIETY	1 year

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SLPB-004-15

BC	Logan Lake	CH5534-DT	503001	1204847	32	D	1203	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH3083-DT	503001	1204847	34	D	1198	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH5535-DT	503001	1204847	36	D	1203	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH3084-DT	503001	1204847	38	D	1198	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH5536-DT	503001	1204847	40	D	1203	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH4697-DT	503001	1204847	42	D	1198	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH2517-DT	503001	1204847	46	D	1198	227	LOGAN LAKE TV SOCIETY	1 year
BC	Logan Lake	CH5537-DT	503001	1204847	48	D	1203	227	LOGAN LAKE TV SOCIETY	1 year
BC	Lytton	CILY-TV-2	502035	1213530	8	A	1994.9	126	LYTTON AREA WIRELESS SOCIETY	N/A
BC	Lytton	CH4321	501440	1213455	10	A	259	18	LYTTON AREA WIRELESS SOCIETY	N/A
BC	Lytton	CHWS-TV-2	502035	1213530	11	A	1994.9	126	LYTTON AREA WIRELESS SOCIETY	N/A
BC	Mackenzie	CKPG-TV-4	550152	1225344	6	A	1296.9	90	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Malakwa	CFFI-TV-1	505422	1185103	4	A	1048.5	60	MALAKWA COMMUNITY CENTRE ASSOCIATION	N/A
BC	Malakwa	CFFI-TV-2	505422	1185103	11	A	960.2	4	MALAKWA COMMUNITY CENTRE ASSOCIATION	N/A
BC	Malakwa	CH4468	505422	1185103	13	A	960.2	4	MALAKWA COMMUNITY CENTRE	N/A

									ASSOCIATION	
BC	McBride	CH4164	531655	1201403	2	A	1340	50	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH2013	531655	1201403	4	A	1235	272	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH2537	531655	1201403	7	A	1340	50	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH4710	531655	1201403	9	A	1350	57	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH4711	531655	1201403	11	A	1350	57	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH4165	531655	1201403	13	A	1340	50	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH5412	531655	1201403	17	A	1366	553	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH5796	531655	1201403	19	A	1366	553	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH5798	531655	1201403	21	A	1366	553	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	McBride	CH5797	531655	1201403	23	A	1366	553	ROBSON VALLEY ENTERTAINMENT ASSOCIATION	N/A
BC	Merritt	CFJC-TV-3	500310	1204527	8	A	1710.3	40	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Miocene	CH4378	521812	1215026	7	A	1325	105	MIOCENE COMMUNITY CLUB	N/A
BC	Moberly Lake	CH4558	554853	1214445	8	A	754.1	16	PEACE RIVER REGIONAL	N/A

									DISTRICT	
BC	Moberly Lake	CH4494	554853	1214445	10	A	757	16	PEACE RIVER REGIONAL DISTRICT	N/A
BC	Morictown	CBCY-TV-3	545854	1271754	4	A	554.7	26	CBC/ RADIO-CANADA	NA
BC	Mount Goldie	CFCN-TV-15	502535	1160626	6	A	2318	10	BELL MEDIA INC.	N/A
BC	Moyie	CH4417	491715	1154954	3	A	952	80	MOYIE COMMUNITY CLUB	N/A
BC	Moyie	CFCN-TV-12	492445	1155019	8	A	1379	71	BELL MEDIA INC.	N/A
BC	Murray Ridge	CH5799	543148	1241107	16	A	1415	38	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Murray Ridge	CH5800	543148	1241107	22	A	1415	38	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	Murray Ridge	CH5801	543148	1241107	26	A	1416	38	FORT ST JAMES TELEVISION SOCIETY	N/A
BC	New Denver	CH5668	495917	1172243	3	A	562	50	AREA "H" NORTH TV SOCIETY	N/A
BC	New Denver	CH5669	495917	1172243	6	A	565	97	AREA "H" NORTH TV SOCIETY	N/A
BC	New Denver	CH2066	495917	1172243	7	A	560	43	AREA "H" NORTH TV SOCIETY	N/A
BC	New Denver	CH4418	495917	1172243	8	A	562	104	AREA "H" NORTH TV SOCIETY	N/A
BC	New Denver	CH5670	495917	1172243	10	A	560	114	AREA "H" NORTH TV SOCIETY	N/A
BC	New Denver	CH5671	495917	1172243	11	A	560	114	AREA "H" NORTH TV SOCIETY	N/A
BC	New Denver	CH5672	495917	1172243	13	A	558	114	AREA "H" NORTH TV SOCIETY	N/A
BC	Nicola	CFJC-TV-12	501140	1205820	10	A	1725.2	30	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A

BC	North Pine	CH4380	562212	1204929	46	A	825	602	PEACE RIVER REGIONAL DISTRICT	2 years
BC	North Pine	CH3033	562212	1204929	50	A	825	602	PEACE RIVER REGIONAL DISTRICT	2 years
BC	Parson	CH2738	510234	1163754	6	A	969	40	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Parson	CH2737	510234	1163754	7	A	969	28	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Parson	CH2022	510234	1163754	9	A	969	28	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Parson	CH2023	510234	1163754	11	A	969	28	COLUMBIA ELECTORAL AREA 'A' TELEVISION REBROADCASTING SOCIETY	N/A
BC	Passmore	CH5650	493302	1174124	2	A	650.6	25	SLOCAN VALLEY TV SOCIETY	N/A
BC	Passmore	CH5651	493302	1174124	4	A	650.6	25	SLOCAN VALLEY TV SOCIETY	N/A
BC	Passmore	CH5652	493302	1174124	5	A	650.6	25	SLOCAN VALLEY TV SOCIETY	N/A
BC	Passmore	CH4365	493302	1174124	7	A	650.6	30	SLOCAN VALLEY TV SOCIETY	N/A
BC	Passmore	CH2054	493302	1174124	10	A	650.6	30	SLOCAN VALLEY TV SOCIETY	N/A
BC	Passmore	CH5653	493302	1174124	20	A	649.3	200	SLOCAN VALLEY TV SOCIETY	N/A
BC	Pavilion Lake	CIPV-TV-1	505400	1214626	4	A	1024	3	PAVILION LAKE RESIDENT AND	N/A

									PROPERTY OWNERS ASSOCIATION	
BC	Pavilion Lake	CIPV-TV-2	505400	1214626	11	A	1023.1	3	PAVILION LAKE RESIDENT AND PROPERTY OWNERS ASSOCIATION	N/A
BC	Pavilion Lake	CIPV-TV	505400	1214626	12	A	1027	2	PAVILION LAKE RESIDENT AND PROPERTY OWNERS ASSOCIATION	N/A
BC	Peachland	CHPT-TV-1	494218	1194455	4	A	502.9	45	DISTRICT OF PEACHLAND	N/A
BC	Peachland	CIPL-TV	494218	1194455	9	A	472.4	69	DISTRICT OF PEACHLAND	N/A
BC	Peachland	CH4322	494218	1194455	29	A	425	595	DISTRICT OF PEACHLAND	2 years
BC	Pemberton	CH2128	501849	1224944	2	A	1018.2	38	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH4552	501849	1224944	6	A	1018.2	38	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH4553	501849	1224944	8	A	1019.7	57	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH2129	501849	1224944	10	A	1019.7	57	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH2130	501849	1224944	13	A	1019.7	57	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH4554	501918	1224743	14	A	1025.8	13	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH4555	501918	1224743	17	A	1025.8	13	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH2125	501918	1224743	25	A	1025.8	13	PEMBERTON TV SOCIETY	N/A
BC	Pemberton	CH2126	501918	1224743	28	A	1025.8	13	PEMBERTON TV SOCIETY	1 year
BC	Pemberton	CH2127	501918	1224743	30	A	1025.8	13	PEMBERTON TV SOCIETY	1 year

BC	Penticton	CHBC-TV-7	493130	1193819	7	A	1030	40	SHAW TELEVISION LIMITED PARTNERSHIP	N/A
BC	Pouce Coupe	CBCD-TV-1	554340	1200406	7	A	842.8	45	CBC/ RADIO-CANADA	NA
BC	Pritchard	CFJC-TV-19	503855	1195018	2	A	628	63	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Quesnel	CFJC-TV-11	525300	1222010	7	A	1301.5	25	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Quesnel	CKPG-TV-5	525300	1222010	13	A	1297	180	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Rimrock	CKRR-TV-1	522555	1222555	9	A	910.2	38	ALEXANDRIA COMMUNITY HALL SOCIETY	N/A
BC	Rimrock	CKRR-TV-2	522555	1222555	11	A	910.2	38	ALEXANDRIA COMMUNITY HALL SOCIETY	N/A
BC	Shakan Indian Reserv	CH4341	501731	1211039	7	A	619	1	PERCY JOE	N/A
BC	Shakan Indian Reserv	CH4348	501724	1211135	16	A	619	10	PERCY JOE	N/A
BC	Shakan Indian Reserv	CHIR-TV	501724	1211135	19	A	619	10	PERCY JOE	N/A
BC	Slocan	CH5280	494600	1172714	3	A	777.2	5	SLOCAN VALLEY TV SOCIETY	N/A
BC	Slocan	CH5281	494600	1172714	6	A	777.2	5	SLOCAN VALLEY TV SOCIETY	N/A
BC	Slocan	CH4363	494600	1172714	7	A	777.2	5	SLOCAN VALLEY TV SOCIETY	N/A
BC	Slocan	CH5283	494600	1172714	10	A	777.2	5	SLOCAN VALLEY TV SOCIETY	N/A
BC	Smithers	CH4442	544427	1265856	31	A	1058	224	HOUSTON-SMITHERS REBROADCASTING	1 year

									SOCIETY	
BC	Sparwood	CFCN-TV-11	494218	1145150	6	A	1776.9	50	BELL MEDIA INC.	N/A
BC	Spences Bridge	CJNA-TV-2	502523	1212050	7	A	259	13	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Spences Bridge	CH2330	502523	1212050	9	A	259	13	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Spences Bridge	CH4444	502523	1212050	11	A	259	13	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Spences Bridge	CH4474	502523	1212050	13	A	259	13	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Spences Bridge	CH4475	502523	1212050	15	A	259	77	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Spences Bridge	CH4476	502523	1212050	19	A	259	77	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Spences Bridge	CH4480	502523	1212050	23	A	259	77	SPENCES BRIDGE COMMUNITY CLUB	N/A
BC	Summit Lake	CH4381	541703	1223851	9	A	753	9	THE TOWN OF SUMMIT LAKE	N/A
BC	Taylor	CBCD-TV-4	561001	1203855	12	A	623.3	45	CBC/ RADIO-CANADA	NA
BC	Telkwa	CFHO-TV-2	544627	1271324	10	A	1172	38	HOUSTON-SMITHERS REBROADCASTING SOCIETY	N/A
BC	Telkwa	CH4441	544627	1271324	20	A	1172	237	HOUSTON-SMITHERS REBROADCASTING SOCIETY	N/A
BC	Topley	CH4355	543012	1261704	6	A	712	45	HOUSTON-SMITHERS REBROADCASTING SOCIETY	N/A
BC	Topley	CFTY-TV	543012	1261704	11	A	714	43	HOUSTON-SMITHERS REBROADCASTING SOCIETY	N/A
BC	Tulameen	CH4403	493239	1204526	2	A	776	10	THE TULCOAL UNITY CLUB	N/A

BC	Tumbler Ridge	CH2444	550757	1205851	9	A	921.6	11	PERSONA COMMUNICATIONS INC.	N/A
BC	Tumbler Ridge	CH2446	550757	1205851	13	A	921.6	11	PERSONA COMMUNICATIONS INC.	N/A
BC	Valemount	CH4330	525030	1191529	4	A	908	79	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CH2062	525030	1191528	6	A	910	79	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CHVC-TV-1	525030	1191529	7	A	911	79	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CH2649	525030	1191529	8	A	907	32	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CH4023	525030	1191529	9	A	889	32	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CH4331	525030	1191529	11	A	905	32	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CH4332	525030	1191529	13	A	904	20	THE VALEMOUNT ENTERTAINMENT SOCIETY	N/A
BC	Valemount	CHVC-TV	524943	1191622	32	A	795	32	THE VALEMOUNT ENTERTAINMENT SOCIETY	2 years
BC	Vavenby	CH5662	513437	1194733	6	A	956	19	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Vavenby	CKVA-TV-1	513437	1194733	7	A	956	35	THOMPSON VALLEY TELEVISION SOCIETY	N/A
BC	Vavenby	CKVB-TV	513437	1194733	12	A	956	35	THOMPSON VALLEY	N/A

									TELEVISION SOCIETY	
BC	Whistler	CHWM-TV-1	500719	1230127	18	A	1710.6	9	WHISTLERWEB.NET INTERNET SERVICE LTD.	N/A
BC	Whistler	CJWM-TV	500719	1230127	21	A	1710.6	1	WHISTLERWEB.NET INTERNET SERVICE LTD.	N/A
BC	Williams Lake	CFJC-TV-5	520655	1221115	8	A	937.2	50	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
BC	Winfield	CH4490	500511	1192531	34	A	880.2	176	CENTRAL OKANAGAN REBROADCAST SOCIETY	2 years
BC	Winlaw	CH4369	493333	1173538	16	A	1871.6	222	SLOCAN VALLEY TV SOCIETY	N/A
BC	Winlaw	CH5647	493333	1173538	22	A	1871.6	222	SLOCAN VALLEY TV SOCIETY	N/A
BC	Winlaw	CH5648	493333	1173538	25	A	1871.6	222	SLOCAN VALLEY TV SOCIETY	N/A
BC	Winlaw	CH5649	493333	1173538	31	A	1871.6	222	SLOCAN VALLEY TV SOCIETY	2 years
MB	Mcreary	CKYB-TV-1	504022	993612	13	A	690.4	140	BELL MEDIA INC.	N/A
MB	Neepawa	CH5248	501347	992758	30	A	405.4	1380	NEEPAWA ACCESS COMMUNITY TV	1 year
MB	Snow Lake	CKYS-TV	545240	1000048	11	A	384.1	19	BELL MEDIA INC.	N/A
MB	Spruce Sands	CH3073	504722	965851	14	A	251	14	ARNES TV BROADCASTING LTD.	N/A
MB	Spruce Sands	CH3074	504722	965851	17	A	251	14	ARNES TV BROADCASTING LTD.	N/A
MB	Spruce Sands	CH3075	504722	965851	20	A	251	14	ARNES TV BROADCASTING LTD.	N/A
MB	Spruce Sands	CH3076	504722	965851	23	A	251	14	ARNES TV	N/A

									BROADCASTING LTD.	
MB	Spruce Sands	CH3077	504722	965851	26	A	251	14	ARNES TV BROADCASTING LTD.	N/A
MB	Spruce Sands	CH3078	504722	965851	29	A	251	14	ARNES TV BROADCASTING LTD.	2 years
NB	Blackville	CKAM-TV-3	464450	655031	9	A	122.2	88	BELL MEDIA INC.	N/A
NB	Boiestown	CKLT-TV-2	462712	662734	7	A	183.7	24	BELL MEDIA INC.	N/A
NB	Chatham	CKAM-TV-2	470022	653512	10	A	161.3	67	BELL MEDIA INC.	N/A
NB	Doaktown	CKAM-TV-4	463418	660750	10	A	159.4	22	BELL MEDIA INC.	N/A
NB	Edmundston	CFTF-DT-1	472316	681901	42	D	379	88	TELEVISION MBS INC.	1 year
NB	Kedgwick	CHAU-DT-11	473816	672106	27	D	365.1	93	CHAU-TV COMMUNICATIONS LTEE	1 year
NB	Newcastle	CKAM-TV-1	470022	653512	10	A	161.3	150	BELL MEDIA INC.	N/A
NB	St. Andrews	CHCO-TV	450454	670334	26	A	41.5	407	ST. ANDREWS COMMUNITY TELEVISION	N/A
NB	St-Quentin	CHAU-DT-2	473047	671707	31	D	459.2	226	CHAU-TV COMMUNICATIONS LTEE	1 year
NB	Tracadie	CHAU-DT-10	473027	645624	9	D	75	25	CHAU-TV COMMUNICATIONS LTEE	N/A
NL	Cape Broyle	CHCB-TV-1	470516	525706	3	A	110	57	ANDREW O'BRIEN, TOWN CLERK	N/A
NS	Bay St Lawrence	CJCB-TV-5	465835	602734	7	A	332.8	5	BELL MEDIA INC.	N/A
NS	Bridgetown	CJCH-TV-4	445235	651824	13	A	285	58	BELL MEDIA INC.	N/A
NS	Cheticamp	CH5523	463624	610312	16	A	66	182	ACADIAN	N/A

									COMMUNICATIONS LTD.	
NS	Cheticamp	CH4095	463624	610312	18	A	66	182	ACADIAN COMMUNICATIONS LTD.	N/A
NS	Cheticamp	CH2448	463624	610312	20	A	66.2	186	ACADIAN COMMUNICATIONS LTD.	N/A
NS	Cheticamp	CH2193	463624	610312	22	A	66.2	186	ACADIAN COMMUNICATIONS LTD.	N/A
NS	Cheticamp	CH2191	463624	610312	24	A	66.2	186	ACADIAN COMMUNICATIONS LTD.	N/A
NS	Cheticamp	CH2190	463624	610312	26	A	66.2	186	ACADIAN COMMUNICATIONS LTD.	N/A
NS	Cheticamp	CH5520	463624	610312	28	A	66.2	186	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2192	463624	610312	30	A	66.2	186	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH5521	463624	610312	32	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2000	463624	610312	34	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CHNE-TV	463624	610312	36	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2001	463624	610312	38	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH4438	463624	610312	40	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2002	463624	610312	42	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years

									LTD.	
NS	Cheticamp	CH4096	463624	610312	44	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH5522	463624	610312	46	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2881	463624	610312	48	A	66.2	184	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH5528	463624	610312	50	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2752	463624	610312	53	A	66.2	184	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH5529	463624	610312	55	A	66	182	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Cheticamp	CH2753	463624	610312	57	A	66.2	184	ACADIAN COMMUNICATIONS LTD.	2 years
NS	Dingwall	CJCB-TV-3	465658	602802	9	A	118.9	64	BELL MEDIA INC.	N/A
NS	Kennetcook	CH5660	451225	634427	23	A	139	80	NORTH NOVA CABLE	N/A
NS	Marinette	CJCH-TV-8	445809	623951	23	A	197.9	77	BELL MEDIA INC.	N/A
NS	Truro	CJCH-TV-2	452434	631500	12	A	170.1	150	BELL MEDIA INC.	N/A
NS	Valley	CJCH-TV-3	452434	631500	12	A	170.1	150	BELL MEDIA INC.	N/A
NT	Hay River	CH4434	604828	1154715	2	A	216	8	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4546	604828	1154715	4	A	216	9	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CIHC-TV	604828	1154715	5	A	216	9	HAY RIVER	N/A

									COMMUNITY SERVICE SOCIETY	
NT	Hay River	CH2068	604828	1154715	6	A	246.5	44	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4435	604828	1154715	8	A	216	9	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4436	604828	1154715	9	A	216	9	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH2069	604828	1154715	10	A	246.5	56	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4437	604828	1154715	11	A	216	9	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4160	604828	1154715	12	A	218.4	45	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4545	604828	1154715	13	A	216	9	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Hay River	CH4547	604828	1154715	16	A	216	9	HAY RIVER COMMUNITY SERVICE SOCIETY	N/A
NT	Kakisa	CH3385	605828	1172449	6	A	251	40	GOVERNMENT OF THE NORTHWEST TERRITORIES, LEGISLATIVE ASSEMBLY	N/A
NT	Tulita	CH2249	645430	1253408	12	A	109.7	14	FORT NORMAN COMMUNITY RADIO SOCIETY	N/A
NU	Arctic Bay	CH2912	730222	850841	5	A	57.2	2	ATTA SUVAGUQ SOCIETY	N/A
NU	Arctic Bay	CH4584	730222	850841	12	A	57.2	2	ATTA SUVAGUQ SOCIETY	N/A
NU	Clyde River	CH2290	702706	683310	9	A	37.5	28	ARKUNNIRMIUT BROADCASTING	N/A

									SOCIETY	
NU	Clyde River	CH2291	702706	683310	12	A	37.5	28	ARKUNNIRMIUT BROADCASTING SOCIETY	N/A
ON	Bancroft	CHEX-TV-1	450345	774922	4	A	487.6	59	591989 B.C. LTD.	N/A
ON	Cat Lake	CH4263	514312	914856	11	A	420	11	CAT LAKE ECONOMIC DEVELOPMENT CORPORATION	N/A
ON	Deer Lake	CH4113	523708	940252	12	A	331.5	11	FRED MEEKIS	N/A
ON	Leamington	CFTV-DT(1)	420424	823754	34	D	229	1000	SOUTHSHORE BROADCASTING INC.	1 year
ON	North Spirit Lake	CH4116	523032	930055	13	A	342	6	NORTH SPIRIT LAKE FIRST NATION	N/A
ON	Parry Sound	CKVR-TV-1	452038	800046	12	A	258	7	BELL MEDIA INC.	N/A
QC	Baie St-Paul	CIMT-DT-4	472526	703129	13	D	182.9	40	TELE INTER-RIVES LTEE	N/A
QC	Baie St-Paul	CFTF-DT-10	472526	703129	26	D	177	125	TELEVISION MBS INC.	N/A
QC	Baie St-Paul	CKRT-DT-1	472526	703129	36	D	180	150	CKRT-TV LTEE	1 year
QC	Cabano	CFTF-DT-3	473732	685048	12	D	369.6	7	TELEVISION MBS INC.	N/A
QC	Cabano	CKRT-DT-4	473732	685048	21	D	367.7	93	CKRT-TV LTEE	N/A
QC	Cabano	CIMT-DT-8	473732	685048	23	D	367.7	101	TELE INTER-RIVES LTEE	N/A
QC	Dégelis	CKRT-DT-2	473436	683630	25	D	408	90	CKRT-TV LTEE	N/A
QC	Fermont	CINE-TV	524740	670526	4	A	658	44	LA COOPERATIVE DE LA TELEVISION COMMUNAUTAIRE DE FERMONT	N/A
QC	Fermont	CFTC-TV	524755	670522	6	A	631.7	5	LA COOPERATIVE DE LA TELEVISION	N/A

									COMMUNAUTAIRE DE FERMONT	
QC	Gaspé	CFTF-DT-9	485015	642932	30	D	183.4	113	TELEVISION MBS INC.	1 year
QC	Kuujuaq	CH4716	580635	682443	3	A	41	17	SOCIETE KUUJJUAMIUT INC.	N/A
QC	Kuujuaq	CH4717	580635	682443	5	A	41	17	SOCIETE KUUJJUAMIUT INC.	N/A
QC	Kuujuaq	CH4718	580635	682443	8	A	41	9	SOCIETE KUUJJUAMIUT INC.	N/A
QC	Kuujuaq	CH4719	580635	682443	11	A	41	9	SOCIETE KUUJJUAMIUT INC.	N/A
QC	Kuujuaq	CH4720	580635	682443	13	A	41	9	SOCIETE KUUJJUAMIUT INC.	N/A
QC	Lebel-Sur-Quevillon	CJDG-TV-2	490325	765847	11	A	337.7	8	RNC MEDIA INC.	N/A
QC	Les Escoumins	CFTF-DT-8	481900	692543	33	D	123	313	TELEVISION MBS INC.	2 years
QC	Les Escoumins	CIMT-DT-7	481900	692543	35	D	123	312	TELE INTER-RIVES LTEE	2 years
QC	Parent	CH2879	475521	743716	10	A	472	14	CORPORATION MUNICIPALE DU VILLAGE DE PARENT	N/A
QC	Port-Daniel	CHAU-DT-3	480820	645907	10	D	189	21	CHAU-TV COMMUNICATIONS LTEE	N/A
QC	Québec	CHMG-TV	464616	711656	9	A	166.4	18	TELE MAG	N/A
QC	Rivière-du-Loup	CFTF-DT-6	475128	693309	11	D	75.3	100	TELEVISION MBS INC.	N/A
QC	Rivière-du-Loup	CKRT-DT-3	475128	693309	13	D	76	114	CKRT-TV LTEE	N/A
QC	Rivière-du-Loup	CIMT-DT-6	475128	693309	41	D	77.8	150	TELE INTER-RIVES LTEE	1 year
QC	St Urbain	CKRT-DT-5	473307	703338	35	D	300	150	CKRT-TV LTEE	2 years
QC	St Urbain	CIMT-DT-5	473307	703338	38	D	300	394	TELE INTER-RIVES LTEE	2 years
QC	Trois-Pistoles	CIMT-DT-	480619	691011	13	D	148.9	50	TELE INTER-RIVES	N/A

		2							LTEE	
QC	Trois-Pistoles	CFTF-DT-2	480619	691011	17	D	145.6	355	TELEVISION MBS INC.	N/A
QC	Trois-Pistoles	CKRT-DT-6	480619	691011	19	D	145.6	385	CKRT-TV LTEE	N/A
QC	Ville-Marie	CKRN-TV-2	472112	792736	6	A	330.7	13	RNC MEDIA INC.	N/A
QC	Wemindji	CH4248	530020	784833	14	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	N/A
QC	Wemindji	CH4249	530020	784833	17	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	N/A
QC	Wemindji	CH4250	530020	784833	20	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	N/A
QC	Wemindji	CH4251	530020	784833	23	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	N/A
QC	Wemindji	CH4252	530020	784833	26	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	N/A
QC	Wemindji	CH4253	530020	784833	29	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	2 years
QC	Wemindji	CH4254	530020	784833	32	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	2 years
QC	Wemindji	CH4255	530020	784833	35	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	2 years
QC	Wemindji	CH4256	530020	784833	38	A	42	6	WEMINDJI TELE-COMMUNICATIONS ASSOCIATION	2 years
SK	Beauval	CH2549	550854	1073608	13	A	466.3	10	SIPISISHK COMMUNICATIONS INC.	N/A
SK	Fort Qu'Appelle	CFRE-TV-2	504511	1034056	6	A	578.6	61	SHAW TELEVISION LIMITED	N/A

									PARTNERSHIP	
SK	Green Lake	CH2352	541730	1074751	2	A	496	8	GREEN LAKE COMMUNICATIONS INC.	N/A
SK	Green Lake	CH2353	541730	1074751	5	A	496	8	GREEN LAKE COMMUNICATIONS INC.	N/A
SK	Green Lake	CH4620	541730	1074751	11	A	486	9	GREEN LAKE COMMUNICATIONS INC.	N/A
SK	Green Lake	CH4621	541730	1074751	13	A	486	9	GREEN LAKE COMMUNICATIONS INC.	N/A
SK	Jans Bay	CH2830	550612	1081313	6	A	448.5	11	NORTHERN HAMLET OF JANS BAY	N/A
SK	La Loche	CH2056	562950	1092707	2	A	476	5	JOHN CHEECHAM	N/A
SK	La Loche	CH2057	562950	1092707	7	A	476	5	JOHN CHEECHAM	N/A
SK	La Loche	CH2058	562950	1092707	9	A	476	5	JOHN CHEECHAM	N/A
SK	Maple Creek	CHAT-TV-2	495522	1092742	6	A	815.4	52	JIM PATTISON BROADCAST GROUP LIMITED PARTNERSHIP	N/A
SK	Shaunavon	CISH-TV	493756	1082417	10	A	969.2	50	TOWN OF SHAUNAVON	N/A
SK	Tantallon	CHSO-TV	503300	1015042	15	A	511	13	THE VILLAGE OF TANTALLON	N/A
SK	Tantallon	CHBG-TV	503300	1015042	17	A	512	13	THE VILLAGE OF TANTALLON	N/A
YT	Beaver Creek	CFBF-TV	622252	1405246	9	A	714.7	9	NOAH GEHMAIR, TELE-COMMUNICATIONS MANAGER, AND HIS SUCCESSORS	N/A
YT	Stewart Crossing	CH2011	632217	1364048	7	A	498	1	STEWART CROSSING COMMUNITY CLUB	N/A
YT	Stewart	CFCS-TV	632217	1364048	9	A	508	12	STEWART	N/A

	Crossing								CROSSING COMMUNITY CLUB	
YT	Stewart Crossing	CH2012	632217	1364048	13	A	498	1	STEWART CROSSING COMMUNITY CLUB	N/A
YT	White River	CIMR-TV	620302	1403526	13	A	1413.6	149	NOAH GEHMAIR, TELE- COMMUNICATIONS MANAGER, AND HIS SUCCESSORS	N/A

*Notification period applicable for TV undertakings currently operating in the to-be-repurposed 600 MHz band (see paragraphs 96 and 114).

Table A4 — Applications for broadcast certificates for low-power TV stations under consideration as of August 3, 2015
(The fields below have intentionally been left blank.)

Province	City	Call Sign	Latitude	Longitude	Channel	Modulation	Rad Center AMSL (m)	ERP (W)	Certificate (or Licence) Holder	Notification Period*
BC	Hazelton									
BC	Hazelton									
BC	Hazelton									
BC	Hazelton									
BC	McBride									
YT	Whitehorse									

*Notification period applicable for TV undertakings currently operating in the to-be-repurposed 600 MHz band (see paragraphs 96 and 114).

Annex B — List of RRBS Stations

No.	LOCATION	COMPANY NAME	CALL SIGN	TX FREQ	RX FREQ
1	HIGHLAND, AB	353233 ALBERTA LTD (dba VM Systems)	VXI987	632	554
2	RYLEY, AB	353233 ALBERTA LTD (dba VM Systems)	CHR293	656	554
3	ST. ISIDORE DE BELLEVUE, SK	10106593 SASKATCHEWAN LTD. (dba GotGeek.ca)	CGZ503	620	686
4	CANDLE LAKE, SK	10106593 SASKATCHEWAN LTD. (dba GotGeek.ca)	CGZ406	620	686
5	TABOR MOUNTAIN, BC	ABC ALLEN BUSINESS COMMUNICATIONS	CGK349	692	692
6	BUFFALO LAKE METIS SETTLEMENT WISP	Advanced Interactive Inc.	CGK859	692	572
7	SASKATOON MOUNTAIN, AB – WISP	Advanced Interactive Inc.	CHP550	548	596
8	VALLEYVIEW, AB	Advanced Interactive Inc.	CJG656	524	560
9	GROUARD, AB	Advanced Interactive Inc.	CKD484	578	530
10	BEAR MOUNTAIN, BC (CJDC-TV TOWER)	Advanced Interactive Canada Inc	CKS368	620	686
11	CHARLIE LAKE, BC (CBC SITE)	Advanced Interactive Canada Inc	CKS457	680	530
12	ROSS HAVEN, AB	Advanced Interactive Inc.	CKR710	590	542
13	GRANDE PRAIRIE, AB, MNP BUILDING	Advanced Interactive Inc.	CKR789	578	542
14	MAYERTHORPE, AB	Advanced Interactive Inc.	CKS454	668	548
15	FOX CREEK, AB	Advanced Interactive Inc.	CKS691	614	686
16	PRINCE ALBERT, SK (WISP)	ADVANCED INTERACTIVE CANADA INC.	VFT812	590	542
17	WHITECOURT, AB	Advanced Interactive Inc.	VFU564	596 590	548 542
18	ELIZABETH, AB – METIS SETTLEMENT	Advanced Interactive Inc.	VXK829	614	692
19	CLEARWATER COUNTY, AB, TOWER ROAD	Beacon Broadband Inc. (dba Harewaves Wireless Inc)	CGX405	524	560
20	CAROLINE, AB – SW 04-36-06-W5M	Beacon Broadband Inc. RRBS (dba Harewaves Wireless Inc)	CHJ974	632	536
21	ROCKY MOUNTAIN HOUSE, AB	Beacon Broadband Inc. RRBS (dba Harewaves Wireless Inc)	VFU567	644	584

22	BEACON, AB – SE 8-40-04W5	Beacon Broadband Inc. RRBS (dba Harewaves Wireless Inc)	VFU568	620	542
				626	548
23	TIMMINS, ON (WEST)	BELL ALIANT REGIONAL COMMUNICATIONS	VXH365	632	686
24	KIRKLAND LAND, ON	BELL ALIANT REGIONAL COMMUNICATIONS	VXH367	638	686
25	NEW LISKEARD, ON	BELL ALIANT REGIONAL COMMUNICATIONS	VXH360	650	674
26	MONT-LAURIER, QC	BELL ALIANT COMMUNICATIONS REGIONAL	VXK943	638	686
27	LA SARRE, QC	BELL ALIANT COMMUNICATIONS REGIONAL	VXK946	644	674
28	MONT-KEKEKO, QC	BELL ALIANT COMMUNICATIONS REGIONAL	VXK947	626	680
29	VAL-D'OR, QC	BELL ALIANT COMMUNICATIONS REGIONAL	VXK950	554	602
30	MILLER HILL, ON	Core Broadband Inc.	CYU673	566	572
31	WARRENSVILLE, AB	DOUBLE F & COMPANY LTD (dba AbNorth.com)	CHQ828	632	542
32	LITTLE SMOKEY, AB, SITE 12B	I WANT WIRELESS.CA LTD	CGZ416	650	572
33	CORONATION, AB – GLENTEL TOWER	LTR COMMUNICATIONS CORPORATION	CHQ387	686	614
34	WABASCA, AB	Slave Lake Communications Ltd.	CGR728	632	686
35	FLAT TOP MOUNTAIN, AB	Slave Lake Communications Ltd.	CGR729	656	692
36	WHITECOURT MOUNT, AB – NE 21-58-12	Slave Lake Communications Ltd.	VFU573	650	692
				662	686
37	MOOSE JAW, SK	TERASTREAM BROADBAND (SK) CORP.	CYS786	512	548
38	STRANRAER, SK	TERASTREAM BROADBAND (SK) CORP.	CYS787	512	548
39	BASSANO, AB	TERASTREAM COMMUNICATIONS LTD.	CKS726	518	590
				524	596
40	GRANDE PRAIRIE AB NE 1/4 12-72-9-W6	The Rural Link Inc.	CFV372	656	614
41	GRANDE PRAIRIE, AB (SASK MTN)	VINCENT COMM & CONTROL	CKD293	626	686
42	YORKTON, SK, 307 TOWER RD.	YOURLINK INC.	CFM673	578	530
43	GRENFELL, SK – NE18-16-7-2	YOURLINK INC.	CFM688	578	530
44	DUFF, SK, PCL A. – SW 34-21-8-W2	YOURLINK INC.	CGL316	614	686
45	CONQUEST, SK, NW 32-29-9-W3	YOURLINK INC.	CGL381	620	686
46	EMMA LAKE, SK, NE 24-53-27 W3	YOURLINK INC.	CGL386	524	560
47	CLEARWATER LAKE, SK	YOURLINK INC.	CHR357	632	680

48	LEBRET, SK – NW 34 20 13 W2	YOURLINK INC.	CHZ721	584	536
49	DENHOLM NORTH BATTLEFORD, SK (WISP)	YOURLINK INC.	VFV593	596	548
50	LLOYDMINSTER, SK	YOURLINK INC.	VFW663	578	530
51	LIBERTY / LONG LAKE, SK	YOURLINK INC.	VFW718	590	542
52	BEECHMOUNT, ON	TJ COMMUNICATIONS	CGZ505	644	680

Annex C — Planning Parameters and Technical Assumptions

Parameter	Value
Spherical earth distance	111.15 km/° latitude
Earth ground and atmospheric constants	$r=15$, $\Theta=5$ mS/m
Climatic zone	Continental temperate (5)
Terrain database	CDED 1"
Calculation of depression angles from transmitter	Spherical earth geometry using elevations AMSL
Radio signal propagation model	Longley-Rice
Longley-Rice service mode	Broadcast
Population database	Statistics Canada, 2011
Rounding of population centroids	None
Terrain extraction interval	0.1 km for average terrain
	1.0 km for path loss
DTV NLBC threshold (LVHF, HVHF, UHF)	Regular power: 28, 36, 41-20log(615/channel mid-frequency in MHz) dB μ V/m
	Low power: 43,48, 51-20log(615/channel mid-frequency in MHz) dB μ V/m
Methodology to determine additional population interference to existing TV station	See Note 1
Maximum additional population interference to an existing TV station from another TV station	0.5%
Treatment of TV stations with zero population	Require a separation distance of 80 km, or a lower distance acceptable by the Department, between the TV station and other TV stations with N-1, N or N+1 assignments
DTV NLBC statistic (location/situation, time)	50%, 90%
DTV-into-DTV interference threshold, co-channel	$15+10 \log [1/(1-10^{-(x/10)})]$ dB, where $x=S/N-15.19$
DTV interference statistic (location/situation, time)	50%, 10%
DTV-into-DTV interference D/U	Regular power:

ratio threshold, first adjacent channels	-28 dB (lower adj.), -26 dB (upper adjacent)
	Low power: -7 dB for Simple Mask, -12 for Stringent Mask
Cell size for Longley-Rice calculations	Square, 2 km/side
Treatment of kwx=3 warnings	Accept, assume coverage
NTSC TV station to DTV station conversion methodology	Using IC F-curve program, match the resulting DTV station's F(90,90) contour distance (see Note 2) to the NTSC TV station's grade B contour distance, up to the maximum F(90,90) contour distance derived by the NTSC station's associated DTV parameters given in the current <i>DTV Post Transition Allotment Plan</i> .
Methodology to repack NTSC TV station	NTSC stations will first be converted to DTV mode using the methodology above. New channel assignment will be based on the frequency band in its DTV mode.
TX antenna elevation pattern shape	Standard OET 69, non-symmetrical
Electrical beam tilt	As specified, or 0.75° if not specified for Canada stations and allotments
Mechanical beam tilt	0 (ignored)
Replication method for antenna horizontal patterns	Scaled ERP (subject to maximum power limits as agreed) at new channel to match area enclosed, using existing antenna pattern
# radials used for height above the average terrain (HAAT) calculation	36
# radials used for contour projection	360
Minimum HAAT for any radial	30.5 m
Receive antenna height above ground level (AGL)	10 m
Receive antenna gain (low VHF, high VHF, UHF)	4, 6, 10 dBd
Downlead loss (LVHF, HVHF, UHF)	1, 2, 4 dB
Receive antenna front-to-back ratio (LVHF, HVHF, UHF) and azimuth pattern shape	10, 12, 14 dB, $\cos^4(\Theta)$, but not less than F/B ratio specified
Polarization	Horizontal
Technical parameters of the station	As-built operating

Note 1: The analysis methodology divides the United States and Canada into a uniform grid of cells common to all television stations within Canada and the United States in order to evaluate and record signal strength, service and interference.

1. Step 1: The baseline interference-free service population for a TV station is calculated based on channel assignments within Canada and the United States and represents the population within the noise-limited service (bounding) contour predicted to receive service and excludes the population of cells where the desired signal is blocked by terrain and excludes cells with existing interference from other stations.
2. Step 2: Additional interference cells are determined from the cells within a station's baseline interference-free service population that receive new interference from another station.
3. Step 3: The percentage of additional population interference is calculated as the sum of total population within the additional interference cells relative to the baseline interference-free service population.

Note 2: F(90,90) contour distance is calculated as the distance to the NLBC signal strength threshold by using F(90,90) curves.

