



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

Committee Updates

Quarterly Meeting
May 13, 2021



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

Broadcasting Committee – Kirk Nesbitt Safety Code 6 Working Group – Julie Bergeron

A meeting was held on March 16, 2021:

1. Bazooka Balun: CBC/Radio-Canada presented induced and contact currents measurements pre-bazooka balun and post bazooka balun
2. Discussions on induced and contact current measurements

Meeting notes and follow up information will be distributed in May 2021 (Included: Presentation slides, balun data in excel format)



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

Safety Code 6 Working Group – Julie Bergeron

Bazooka baluns

- Data for 3 transmission sites
- Measurements have demonstrated that bazooka baluns can effectively reduce RF fields and contact current levels near guy wire anchor points in a manner which can make sites compliant with the limits of SC6
- The comprehensive research and field measurements performed by CBC/Radio-Canada illustrate that bazooka baluns should be considered a valid and accepted method to make a site compliant with SC6 in Canada



Safety Code 6 Working Group – Julie Bergeron

Discussion on induced and contact currents

- ICNIRP 2020 removed the current limits, will Health Canada make the same change?
 - “ISED recommends that the RABC reaches Health Canada Consumer and Clinical Radiation Protection Bureau (CCRPB) directly”
- Current limits continue to be part of SC6, but there are no new requirements from ISED on the matter.
- Available measuring equipment: ETS Lindgren HI-3702 & MPB CCM
 - “the Department does not formally recognize or endorse any specific equipment.”
- General observations from the group; typically at FM broadcast sites:
 - Contact currents are very stable in time
 - When RF fields are below the SC6 limits, so are the induced currents



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

M&PC Committee – Bob Simmonds

AWS subcommittee – Geoff Catliff

- SRSP-503 & RSS-132 - 800 MHz Cellular Band
 - Rogers – Peel Regional Police Interference Issue
 - Progress slowed due to COVID-19
 - Awaiting formal technical report & analysis of interference issue from ISED
 - Review of docs completed other than any further changes that may arise from investigation



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

M&PCC – Public Safety subcommittee David Nicholas & Martin McCulloch

- Rogers – Peel Regional Police Interference Issue
- Final complement of 700MHz air/ground channels which could/should be added to SRSP-511
- RCMP is pursuing air-to-ground discussions with ISED for High Altitude operations
- Newly proposed Intrinsically Safety standards from CSA and NFPA for radios under review



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

DBS-01 Issue 3, RSS-222 Issue 3 Working Group – Bob Simmonds

- One meeting held
- DBS-01 – completed
- RSS-222 – a few suggestions made to harmonize more closely with FCC rules (and testing)



Spectrum Management Innovation Committee – Rob Berezowski

- Terms of Reference for the Spectrum Management Innovation committee have been drafted and will be presented to ISED for input and finalization.
- The SMS Improvement Committee has not met during this quarter
 - Meetings are expected to be called soon to update open SMS Improvement items
- A sub-committee is planned to be formed to consider suggestions and proposals to enhance Data Integrity in the licensing databases. The licensing databases are increasingly being relied upon for automated spectrum management, and Data Integrity is becoming more important. The first step will be to create some sort of charter or terms to define data integrity and the role of the sub-committee.



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

There are no updates for the EMC and the Fixed Wireless Committees. These Committees were not active last quarter.



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

FCC Update - Frank Korinek



2.5 GHz Band:

- The FCC is seeking comments with a [Public Notice](#) on the 2.5 GHz auction procedures for bidding to acquire, which will offer approximately 8,300 geographic overlay licenses for unassigned spectrum in the 2496–2690 MHz band (2.5 GHz band). The FCC will offer up to three blocks of spectrum—a 49.5 megahertz block, a 50.5 megahertz block, and a 16.5 megahertz block. These blocks will be licensed on a county basis. Reply comments are due by May 17.
- FCC Docket 20-429 ([link](#))



3.45-3.55 GHz Band:

- The FCC sought comments with a [Public Notice](#) on the proposed auction procedures for bidding to acquire licenses for spectrum in the 3.45-3.55 GHz band, subject to cooperative sharing requirements. The FCC expects the bidding to commence in early October 2021.
- FCC Docket 19-348 ([link](#))



5.9 GHz Band

- The FCC sets pleading cycle for a [Further Notice of Proposed Rulemaking](#) that would propose modifying all ITS licenses in the 5.9 GHz band subject to the procedures for license modifications set forth in section 316 of the Communications Act. Comments due June 2 and reply comments due July 2.
- FCC Docket 19-138 ([link](#))



12.2-12.7 GHz Band:

- FCC sought comments on an [Notice of Proposed Rulemaking](#) intended to maximize efficient use of 500 megahertz of mid-band spectrum between 12.2-12.7 GHz (12 GHz band). Specifically, whether it is technically feasible to add a new or expanded terrestrial mobile allocation in the 12 GHz band without causing harmful interference to incumbent licensees and whether to increase terrestrial use of the 12 GHz band or continue with the current framework.
- FCC Docket 20-443 ([link](#))



Part 25 Rules Governing Satellite:

- The FCC is seeking comments with a [Public Notice](#) on three Petitions for Reconsideration of the FCC's [Report and Order](#) creating an optional framework for authorizing both the blanket-licensed earth stations and space stations of a satellite system through a unified license. The Petitions for Reconsideration: [Petition 1](#); [Petition 2](#); and [Petition 3](#). Replies to oppositions are due by May 17.
- FCC Docket is 18-314 ([link](#))



Wireless Microphones:

- The FCC will seek comments on a [Notice of Proposed Rulemaking](#) considering whether to permit wireless multi-channel audio systems (WMAS), which enable more microphones per megahertz of spectrum. Specifically, the applicable technical rules for operation of Part 74 low-power auxiliary station (LPAS) devices will be changed to permit a WMAS, to operate in the broadcast television (TV) bands and other Part 74 LPAS frequency bands on a licensed basis.



Open Radio Access Networks (Open RAN):

- The FCC is seeking comments with a [Notice of Inquiry](#) on the potential of Open Radio Access Networks (Open RAN). Specifically, what steps should FCC take to accelerate the development and deployment of Open RAN, any challenges or other considerations related to the testing, deployment, and integration of Open RAN, and the costs and benefits associated with Open RAN development and deployment. Reply comments by May 28.
- FCC Docket is 21-63 ([link](#))



RADIO ADVISORY
BOARD OF CANADA

CONSEIL CONSULTATIF
CANADIEN DE LA RADIO

End of Report