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# Update on Industry Canada's Standards Activities

## Regulatory Standards (RSS)

RABC meeting – Montreal  
April 2015

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## **Presentation Overview**

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- **Intro – Directorate of Regulatory Standards**
- **Update on RSS Standards**
- **Contact info for Regulatory Standards**

# Directorate of Regulatory Standards (DRS)

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DRS is responsible for developing, maintaining and publishing Industry Canada regulatory standards such as, radiofrequency emission standards (RSS) and noise emissions from equipment and non-radio systems (ICES). The Directorate of Regulatory Standards is responsible for Radio Standards activities in various international forums including the following:

- IEEE & IEC (RF Exposure);
- Standards Committee ANSI C63;
- CISPR/IEC: Special international committee on radio interference - CISPR Standard Development Activities;
- International Telecommunication Union (ITU).

In addition to developing RSS's & ICES standards DRS is responsible for:

- implementing RF Exposure requirements;
- performing electromagnetic compatibility (EMC) analysis and implement EMC requirements;
- assisting the Telecommunication Certification Body Council (TCBC) members regarding RSS & ICES standards.

# Update on RSS Standards (1)

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## Newly Published

### March 2015:

- **RSS-102 (Issue 5)** – *Radio Frequency (RF) Exposure Compliance of Radiocommunications Apparatus (All Frequency Bands)*
- **RSS-213 (Issue 3)** – *2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices*
  - harmonize with FCC by adopting measurement methods in ANSI C63.17-2013

### February 2015:

- **RSS-123 (Issue 3)** – *Licensed Low-Power Radio Apparatus*
- **RSS-210 (Issue 8)** – *Licence-exempt Radio Apparatus (All Frequency Bands): Category I*
  - Note 1: Annex 13.1 is no longer applicable and is replaced by [RSS-251](#) (November 2014)
  - Note 2: RSS-210, [Amendment 1](#) — Licence-Exempt, Low-Power Radio Apparatus Operating in the Television Bands (February 2015)
  - Note 3: Annex 11 is no longer applicable and is replaced by [RSS-211](#) (March 2015)
- **RSS-211 (Issue 1)** – *Level Probing Radar Equipment*
- **RSS-222 (Issue 1)** – *White Space Devices (WSDs)*

### November 2014:

- **RSS-251 (Issue 1)** – *Field Disturbance Sensors in the Bands 46.7-46.9 GHz (Vehicular Radar) and 76-77 GHz (Vehicular and Airport Fixed Radar)*

# Update on RSS Standards (2)

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## Newly Published (based on 2014 Notice DRS-1003 on E-labelling decision)

### November 2014:

**RSS-GEN (Issue 4)** – NEW! --- labelling requirements transferred to RSP-100

**RSP-100 (Issue 10)** – NEW! --- new e-labelling option included in labelling requirements

**ICES-001 (Issue 4)** – updated (*Industrial, Scientific and Medical (ISM) Radio Frequency Generators*)

**ICES-002 (Issue 6)** – updated (*Spark Ignition Systems and Other Devices Equipped with Internal Combustion Engines*)

**ICES-002 (Issue 5)** – updated (*Vehicles, Boats and Other Devices Propelled by an Internal Combustion Engine, Electrical Means or Both*)

**ICES-003 (Issue 5)** – updated (*Information Technology Equipment (ITE) — Limits and Methods of Measurement*)

**ICES-006 (Issue 2)** – updated (*AC Wire Carrier Current Devices (Unintentional Radiators)*)

**RSS-216 (Issue 1)** – updated (*Wireless Power Transfer Devices (Wireless Chargers)*)


**RSS-310 (Issue 3)** – updated (*Licence-exempt Radio Apparatus All Frequency Bands: Category II Equipment*)

**DC-01 (Issue 5)** – updated (*Procedure for Declaration of Conformity and Registration of Terminal Equipment*)

# Update on RSS Standards (3)


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## Soon to be Published



- **RSS-119 (Issue 12)** – *Equipment Operating in the Land Mobile and Fixed Service in the Frequency Range 27.41 - 960 MHz*

- Specify requirements for narrowband 6.25 kHz channel bandwidth equipment operating in the 800 MHz band
- Modify frequency stability limits for mobile equipment, operating in various frequency band (400 MHz and 800 MHz bands), with an occupied bandwidth greater than 20 MHz.
- Clarify and specify transmitter's output power for all equipment
- Remove the minimum data rate requirement for 50 kHz bandwidth PS equipment operating in the band 700 MHz. This requirement is harmonized with FCC.
- Remove the compliance date for 700 MHz PS equipment to meet the minimum data rate for 6.25 kHz channel



- **RSS-247 (Issue 1)** – *Digital Transmission Systems (DTS) & Frequency Hopping Spread Spectrum Systems (FHSS) (Previously under RSS-210 Annex 8 & 9)*

- **RSS-310 (Issue 4)** – *Licence-exempt Radio Apparatus: Category II Equipment*
  - revise definition of underground and tunnel radio licensing are exempt from licensing
- **RSP-100 (Issue 11)** – *Certification of Radio Apparatus*
  - changes based on SAM/CSI software implementation

# Update on RSS Standards (4)

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## Revisions in Progress:

- **RSS-131 (Issue 3) – Zone Enhancers for the Land Mobile Service**
  - review the zone enhancers specifications and measurement methods provided to harmonize with recent FCC rules as much as possible
  - Currently under RABC and IC final review
  
- **RSS-139 (Issue 3) – Advanced Wireless Service Equipment Operating in the Bands 1710 - 1780 MHz and 2110 - 2180 MHz**
  - Extend the frequency bands from 1710-1755 MHz and 2110-2155 MHz to 1710-1780 MHz and 2110-2180 MHz
  - Add new requirements for the extended bands (AWS-3 bands).
  - Consultation completed.
  
- **RSS-170 (Issue 3) – Mobile Earth Stations and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service Bands**
  - Modify requirements for ATC equipment operating in the bands 2000-2020 MHz and 2180-2200 MHz (AWS-4 bands) such as emission mask, e.i.r.p.
  - Remove the dual-mode handset requirement for ATC mobile equipment operating in the AWS-4 bands
  - Consultation completed

# Update on RSS Standards (5)

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## Revisions in Progress:

- **RSS-210 (Issue 9) – Licence-exempt Radio Apparatus: Category I Equipment**
  - clean-up of annex amendments
  - minor technical updates
  
- **RSS-216 (Issue 2) – Wireless Power Transfer Devices (Wireless Chargers)**
  - minor technical updates
  - Higher Wireless Power Transfer Devices (Future Work)
  
- **RSS-220 (Issue 2) – Device using Ultra-wideband (UWB) Technology**
  - under internal review



# Inquiries Regarding RSS or ICES Standards

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- Email address for inquiries: [res.nmr@ic.gc.ca](mailto:res.nmr@ic.gc.ca)
- Industry Canada documents including RSS's and ICES standards are available on the Spectrum Management and Telecommunications website at: <http://www.ic.gc.ca/spectrum>, under Official Publications.

Thank you !