FCC Roundtable
General Discussion

TCB Workshop
October 19, 2010

Federal Communications Commission
Office of Engineering and Technology
Laboratory Division
Agenda

- Updated Guidance
  - Modular Approval
  - Permissive Change
  - Part 90Z devices

- New and Updated Rules
  - Part 24, 27, 80, 90, 95, 101
  - Parts 25 and 27

- Revised Guidance
  - Software Configuration Control
  - UNII devices with DFS capabilities
  - Permit-but-Ask List
Answer to Question 1 B has been changed - Change in ID Certification (Section 2.933) - to clarify that an applicant can only file for a change in ID for a certified module if they have written permission from the original grantee.

Question 10 has been added - Must the shield enclose the entire module?

Question 11 has been added – Can a module use a micro-strip trace in the antenna design? Provide guidelines for allowing this option.

Minor editorial changes have been made to correct spelling and grammar.
Draft Updates for Permissive Change – KDB 178919

- Clarified restrictions on third party (including users and OEMs) changes to radio parameters through country code selection or other software changes.

- Clarified that maximum power increase allowed under certain circumstances where a new band which is subject to technical rules is added.
  - For example, UNII DFS band added to approved device in UNII band 1. The UNII DFS bands allow higher power.
Updated list of conditions for mobile and fixed mobile CPE devices operating at power levels above mobile limits pursuant to a limited waiver (DA 10-676).

- Devices must register in the ULS database
- Device must not be sold to the general public
- Device must operate using technical parameters as listed in the waiver.

Refer to the KDB and the waiver for more details.
Updates (Part 80, 90, 95, 101) &
Corrections (Part 24 & 27)
Part 90 Narrowbanding Extension

- Public Notice DA 10-119 (Published June 30, 2010) – New transition date
- Updated KDB 579009 (Also see attached FAQ) – both documents dated 7/22/2010
- Jan 1, 2013 – Equipment Authorization deadline (Extension)
- Jan 1, 2013 – Licensing deadline
Parts 80, 95, & 101 Update

Part 80: FCC 10-110 (Released June 10, 2010):
- USCG Notice
- New Standards (IEC 62238)
  • Improve detection, reduce false alarms, and improve GPS interconnection alarms

Part 87: FCC 10-103 (Released June 15, 2010):
- ELTs no longer permitted at 121.5 MHz
- Channel Spacing of 8.33 kHz permitted (Waiver no longer required)
Part 101: FCC 10-109 (Released June 11, 2010)


– 30 MHz channels permitted in 6525-6875 MHz Band

– Additional channels in 21.8-22 MHz and 23.0-23.2 MHz bands

Correction to CFR (Part 24 & 27)

– Corrections in 47CFR 2009 edition for Sections 24.232 & 57.50(d)

– Correction published in Federal Register:

Revisions to Part 27 (WCS) and Part 25 (SDARS) rules for equipment operating in 2.3 GHz band
2.3 GHz Band Plan
(Frequencies in MHz)
In R&O (FCC 10-82) FCC modified the technical operating parameters for WCS fixed and mobile stations operating in the 2305-2320 MHz and 2345-2360 MHz bands and established technical operating parameters for SDARS terrestrial repeaters operating in the 2320-2345 MHz band, respectively.

The performance requirements (i.e., power, duty cycle, and out-of-band emissions limits) for WCS Base and Fixed Stations, Customer Premises Equipment, and Mobile and Portable Stations can be found in Sections 27.50 and 27.53 of the Commission’s Rules.

The performance requirements (i.e., power and out-of-band emissions limits) for SDARS Terrestrial Repeaters can be found in Sections 25.202 and 25.214 of the Commission’s Rules.

Applications for equipment authorization under these rules are subject to PBA procedures for the labs and TCBs.
Clarified Non-SDR Part 15 devices must not allow third parties (users, OEMs, software providers) ability to radio parameters through such features as Country Code selection or configuration control.

Devices approved as Part 15.202 master in some bands and client in others must not have software features to allow third parties to change conditions under which equipment was authorized.

Require attestation from the applicant that software control will not allow the device to operate outside the authorized parameters when operating in US.
Interim plans to approve UNII devices operating in the 5470 - 5725 MHz band with radar detection and DFS capabilities – subject to certain conditions:

– Devices must not transmit in 5600 – 5650 MHz
– Outdoor devices must be professionally installed
– Outdoor devices installed within 35 km radius of TDWR must operate at least 30 MHz from TDWR frequency
– Voluntary registration in WISPA sponsored database

Current test procedures will continue to apply
– Plans are underway to develop alternative test procedures

Devices with radar detection capabilities must be submitted to the FCC for certification
Changes to Permit-but-ask List

- Clarified conditions for devices subject to SAR evaluation where test procedures are not well defined
- Added devices subject to the revised WCS (Part 27) and SDARS (Part 25) rules operating in the 2.3 GHz band
Questions and Answers

Thanks!