



Regional Planning Status Update and Regulatory Update

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TOPICS

- ❑ Background – Commission’s Role in Relation to Regional Planning Committees
- ❑ 800 MHz Band Regional Planning
- ❑ 700 MHz Band Regional Planning
- ❑ Bureau Support for Regional Planning Committees
- ❑ Update on Interoperability Issues
- ❑ Questions

COMMISSION'S ROLE IN RELATION TO REGIONAL PLANNING COMMITTEES

- *Commission's role in relation to the RPCs is limited to:*
 - (1) defining regional boundaries,
 - (2) requiring fair and open procedures, *i.e.*, requiring notice, opportunity for comment, and reasonable consideration,
 - (3) specifying the elements that all regional plans must include, and
 - (4) reviewing and accepting proposed plans (or amendments to approved plans) or rejecting them with an explanation.

800 MHZ BAND REGIONAL PLANNING

NPSPAC 806-809/851-854 MHz

47 C.F.R. § 90.16 – The Public Safety National Plan is contained in *Report and Order*, General Docket No. 87-112

- ❖ No assignments will be made until a regional plan has been accepted by the Commission. 47 C.F.R. § 90.621(g)
- ❖ Policy statements in *Report and Order* direct regional planning
- ❖ *Memorandum Opinion and Order*, 3 FCC Rcd 2113 (1988) - establishing the 55 regions by modifying regional boundaries for Texas (Regions 40, 49, 50, 51, 52 and 53; and Great Lakes Area (now Region 54)
- ❖ Five Mutual Aid channels, including one calling channel

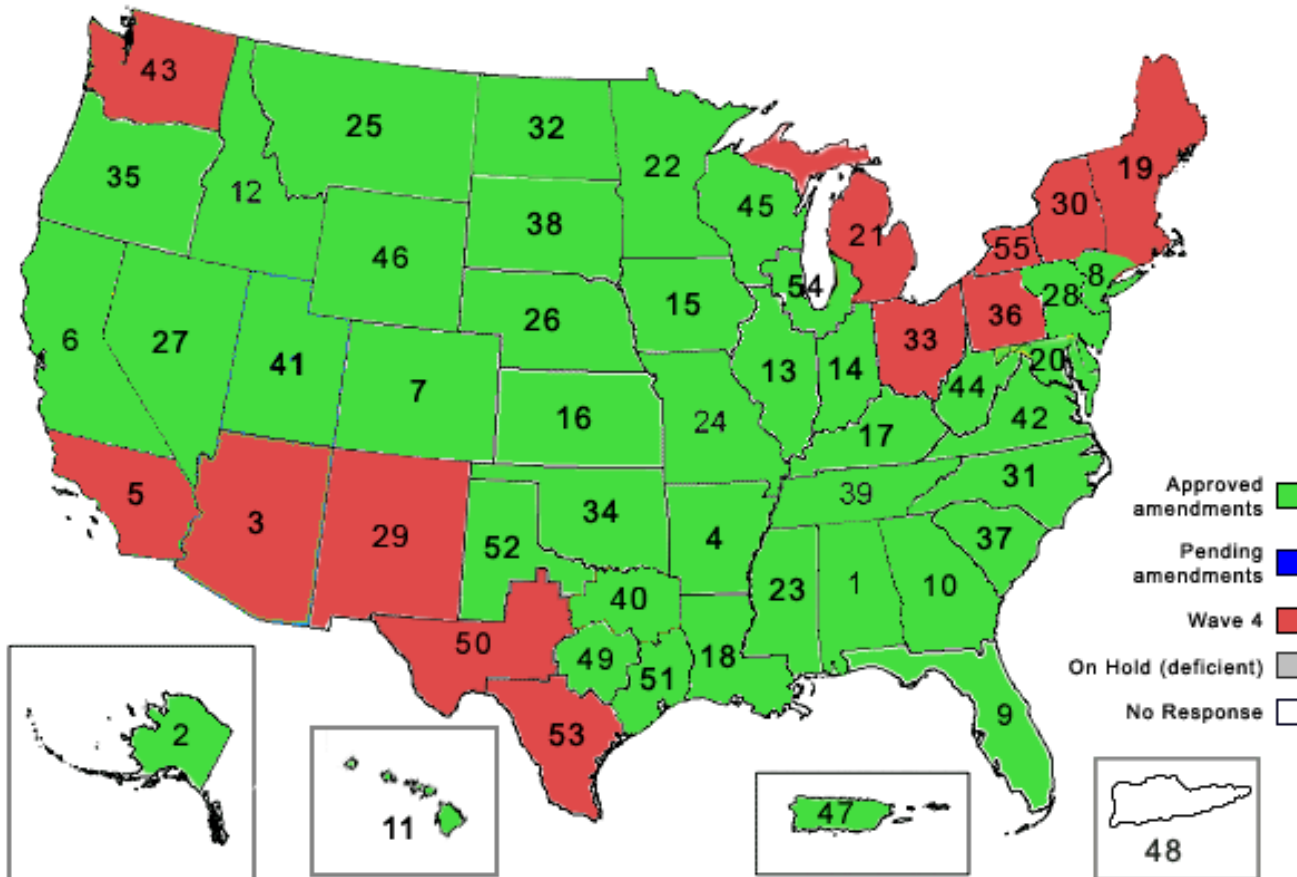
Rebanding Plan Amendments - *Public Notice*, DA 09-212 (rel. 2/10/2009) established requirement for regions in Waves 1, 2 and 3 to submit amendments. Streamlined due April 13, 2009, Non-streamlined due June 10, 2009.

- Plans were amended to reflect the **15 megahertz shift in the NPSPAC band from 821-824/866-869 MHz to 806-809/851-854 MHz**

41 Approved Rebanding Plan Amendments -

Region 48 (US Virgin Islands) – no response.

800 MHz NPSPAC Rebanding Plan Amendments Status



US/Canada and US/Mexico border areas

Region 3 Arizona

Region 5 Southern California

Region 19 New England (Connecticut, Maine, Massachusetts,
New Hampshire, Rhode Island & Vermont)

Region 21 Michigan

Region 29 New Mexico

Region 30 New York-Albany

Region 33 Ohio

Region 36 Western Pennsylvania

Region 43 Washington (800 MHz freeze on non-rebanding applications remains in effect through 10/18/15. Applicants can seek STA with Transition Administrator concurrence)

Region 50 Texas-El Paso

Region 53 Texas-San Antonio

Region 55 New York-Buffalo

- Wave 4 Plan Amendments filing requirements to be announced - Negotiations with US/Canada and US/Mexico have been completed.

20 Regions Completed Rebanding*

Full interference protection rules in place
TA approval for new NPSPAC applications no longer required
Sprint-Vacated interleaved spectrum available to Public Safety for 5 yrs (exclusively for 3 yrs)
Expansion and Guard Band spectrum available
900 MHz freeze lifted

Region 2 Alaska	Region 26 Nebraska
Region 7 Colorado	Region 30 Eastern Upstate New York
Region 11 Hawaii	Region 32 North Dakota
Region 12 Idaho	Region 38 South Dakota
Region 15 Iowa	Region 41 Utah
Region 16 Kansas	Region 44 West Virginia
Region 17 Kentucky	Region 45 Wisconsin
Region 22 Minnesota	Region 46 Wyoming
Region 24 Missouri	Region 55 Western Upstate New York
Region 25 Montana	* Region 64 American Samoa (treated as a NSPAC region for rebanding purposes)

14 Regions Recently Completed Rebanding

PSHSB and WTB to Issue Public Notice

Region 1 Alabama	Region 21 Michigan
Region 8 New York Metropolitan	Region 28 New Jersey, Eastern Pennsylvania and Delaware
Region 10 Georgia	Region 35 Oregon
Region 13 Illinois	Region 36 Western Pennsylvania
Region 14 Indiana	Region 37 South Carolina
Region 19 New England	Region 39 Tennessee
Region 20 Maryland, Washington, DC, and Northern Virginia	Region 51 Texas - Houston

800 MHz Updates

- In November 2014, the FCC (1) revised the rules governing the 800 MHz Cellular (“Cellular”) Service, leading to a vastly streamlined Cellular licensing regime and (2) sought comment on establishing cellular power rules in the band above 862 MHz (e.g. ESMR and Cellular A and B Blocks).
- The FCC encouraged public safety entities, including regional entities to file comments on allowing cellular entities to use PSD model, which could better accommodate LTE. The FCC also sought comment on employing Power Flux Density limits to mitigate interference to public safety operations.
- In 2014 WTB sought comment on Sprint LTE waiver request in 3 NPSPAC Regions 29 (New Mexico), 50 (TX-EI Paso) and 53 (TX-San Antonio) (WT Docket 14-133). The waiver remains pending.
- The FCC sought comment on creating interstitial channels in the 800 MHz Mid-Band and recently requested additional comment on LMCC’s proposed interference contours.
- The FCC sought comment on applying H-Mask to all digital equipment in the 800 MHz NPSPAC Band and requiring all mobile and portable radios to be capable of analog emission on the VHF and UHF I/O channels and 800 MHz mutual aid.

700 MHZ BAND REGIONAL PLANNING

700 MHz Regional Planning

Administration of regional planning is defined in the Commission's *First Report and Order and Third Notice of Proposed Rulemaking*, WT Docket No. 96-86, 14 FCC Rcd 152 (1998) – describes **the planning process for General Use channels**

Authorizes RPCs to prioritize “highest and best use” to make such determinations - *Second Memorandum Opinion and Order*, 15 FCC Rcd 16844 (2000) – addressed digital modulation, technical requirements, efficiency and receiver standards, and further outlined RPC authority and responsibilities

Consolidation of NB frequencies *Second Report and Order*, PS Docket No. 06-229, WT Docket No. 96-86 22 FCC Rcd 15289 (2007).

Plan Requirements

- 47 C.F.R § 90.527 - Regional plan requirements - each plan must contain certain “common elements”

- Comprehensive Plans will also contain:
 - Procedures for requesting spectrum allotments
 - Initial “county” pool allotments, varies by region
 - Application requirements and RPC evaluation/approval criteria
 - Procedure for frequency coordination
 - System Design/Efficiency Requirements
 - System Implementation
 - Adjacent region coordination procedures

■ 47 C.F.R § 90.531 Band Plan

- ❑ Sets forth the band plan for the 763-775 MHz and 793-805 MHz bands.
- ❑ **Base and mobile use.** The 763-775 MHz band may be used for base, mobile or fixed (repeater) transmissions. The 793-805 MHz band may be used only for mobile or fixed (control) transmissions.
- ❑ **Narrowband segments** - divided by designated purpose: General Use, Interoperability, former Secondary Trunking (now Air-Ground Channels), State License, Low Power, and the former Reserve (now General Use) channels.

■ Plan development and implementation issues

- **Flexibility in Allotment pools** – ex: By county geographic political boundary plus, 5+ 10+ miles, where possible. Region 5 (Southern California) is an exception.

- **Applicants failing to provide sufficient information** to the RPC in order to complete their due diligence evaluation and frequency recommendation.
 - Resolve within the Region or through the NRPC, if necessary escalate to the Policy and Licensing Division and PSHSB for resolution.

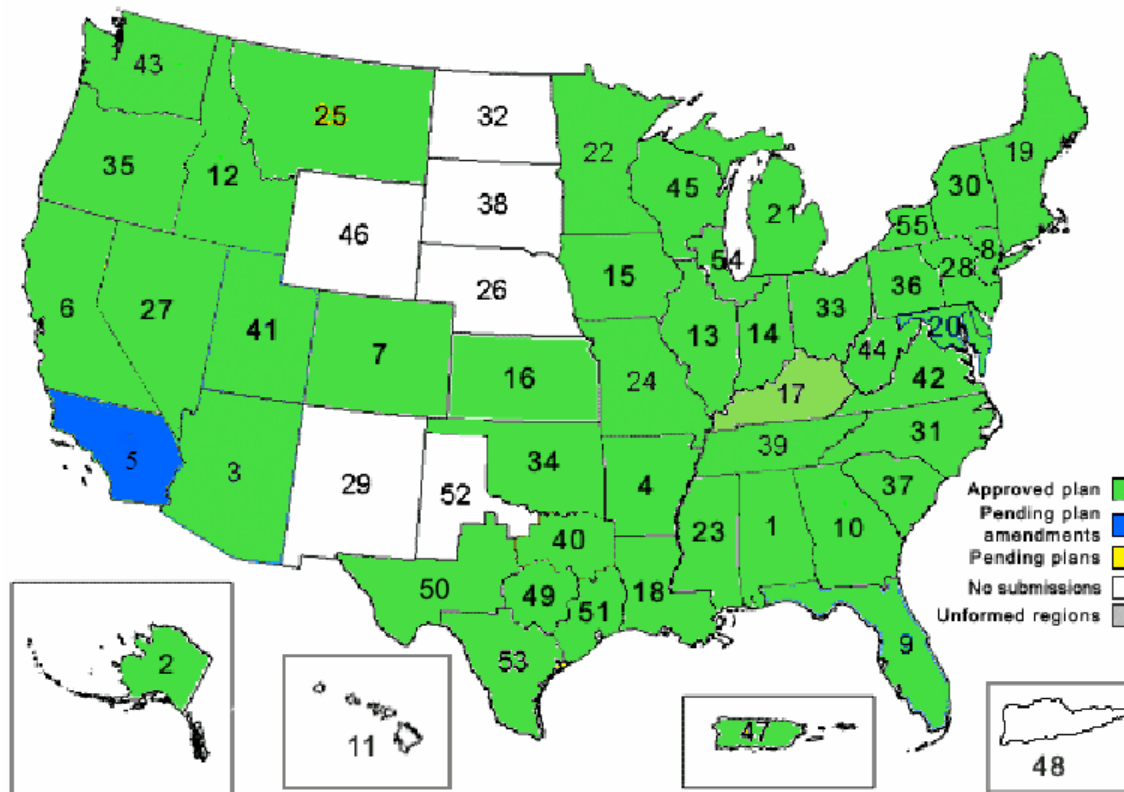
- ❑ **RPC established Loading requirements.** There is no FCC requirement under 700 MHz rules. However, a RPC 700 MHz Plan may include suggested loading requirements, which the RPC will use in evaluating applications on a case by case basis.
 - ❑ **RPC Interoperability responsibilities:** State SIEC and SWICs. Identify the body with responsibility (RPC, SIEC, etc.)
 - ❑ **Eligibility rules:** 700 MHz eligibility rules are very specific and may not be waived by the Commission. 47 C.F.R, 90.523.
 - ❑ **Relation to 800 MHz:** 700 MHz RPCs are distinct entities.
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- **RPC letters of support for STAs, and applications for licensure**
 - RPC approval letters must be filed with every application
 - Specific frequency recommendations, as approved by the RPC, must be identified in the RPC letter of support to the public safety applicant and must be signed by current chairperson.
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700 MHz Regional Plan Status

- **47 Plans Submitted** – See *Docket history* in WT Docket No. 02-378 in ECFS (repository for plans, plan amendments and comments submitted)
 - Electronic Comment Filing System: <http://apps.fcc.gov/ecfs/>
- **47 Plans Approved**, See FCC EDOCs for Comment and Approval Public Notices (PNs)
 - Commission's Electronic Documents: http://fjallfoss.fcc.gov/edocs_public
- **8 Regions Have Not Submitted Plans**

700 MHz Regional Planning Map – Aug. 2015



700 MHz NARROWBAND UPDATES

- In October 2014, the Commission eliminated the 700 MHz narrowbanding requirement.
- Reallocated the narrowband reserve channels to General Use subject to RPC administration and provided priority access to relocating T-Band public safety incumbents that commit to return T-Band spectrum, e.g. LA-RICs and WMATA.
- RPCs may designate reserve channels for deployable trunked systems and vehicular repeater systems.
- Established primary air-ground channels under State Administration. Some states elected to administer or delegated administration to the relevant RPC.
- Required manufacturers to demonstrate compliance with CAP during the equipment certification process to ensure P25 interoperability across vendors.

700 MHz NARROWBAND UPDATES

- The PSHSB approved the nationwide channels recommended by NPSTC/NRPC for deployable trunked systems.
 - RPC Plan amendments due Oct. 30, 2015. Regions 5 and 20 submitted plan amendments in WT Docket 02-378.
 - PSHSB clarified that the 700 MHz trunking rule does not apply to 700 MHz air-ground channels as requested by the NRPC.
 - TIA/Motorola sought reconsideration of the FCC's rule encouraging compliance with CAP for 700 MHz radios.
 - PSHSB approved State License interim showings for most states. Final showing due on June 13, 2019.
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700 MHz NARROWBAND UPDATES

- The following States cancelled their 700 MHz narrowband state license:
 - Alaska
 - Indiana
 - Kentucky
 - Maine
 - Minnesota
 - Montana
 - Oklahoma
 - South Dakota
 - Vermont
 - Virgin Islands
 - West Virginia
 - Wyoming
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BUREAU SUPPORT FOR REGIONAL PLANNING

Regional Plan Administration:

- John Evanoff, Attorney-Advisor, John.Evanoff@fcc.gov (202) 418-0848
 - RPCs should notify PSHSB staff of changes in leadership

Requests for Meeting Announcement PNs:

- Kim Anderson, Kim.Anderson@fcc.gov or (202) 418-
 - Cc: John Evanoff
 - RPC requests to PSHSB to issue Public Notice of meeting announcements are provided as a courtesy and RPCs should provide PSHSB staff advance notice
 - RPCs remain responsible for providing membership advance notice as required by Commission policies.

Comment Public Notice

- Plan and Plan Amendments are reviewed, and if accepted, placed on public notice for comment.
- **If found deficient, *i.e.*, rejected --**
 - Staff will notify RPC of discrepancy, resolve staff-to-staff where possible.
 - Deficiencies must be resolved before deemed sufficiently compliant to place on public notice.
 - 700 MHz plan amendments subject to streamlined procedures, 47 CFR § 90.527(b).

Electronic Search Databases

- **FCC Daily Digest (DD)** – Public notices are published in the Commission’s DD with a comment cycle: 20 days for comments, 10 for replies.
 - Streamlined 700 MHz plan amendments are deemed approved unless objection filed within 30 day comment period.
 - Minor amendments must be filed with the FCC and served on adjacent regions, but are not subject to public comment
 - Plan, or Plan Amendment approvals are announced by Public Notice
 - **EDOCs** – Commission’s Electronic Document database contains all FCC issued documents, PNs, Orders, NPRMs, News Releases, etc.
 - **ECFS** – Electronic Comment Filing System allows public to file comments on Plan and Plan Amendments according to docket number
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UPDATE ON INTEROPERABILITY EFFORTS

INTEROPERABILITY

- In 2014, the PSHSB sought comment on NPSTC's proposal to make Railroad Police eligible for the nationwide interoperability channels (e.g. VHF, UHF, 700 MHz I/O channels and the 800 MHz mutual aid channels).
- NTIA and the FCC agreed to streamline procedures to enable State, Local and Tribal public safety entities to license and use the Federal interoperability channels.
- SWIC and a Federal entity to enter into a letter of understanding to facilitate licensing.

QUESTIONS?

700 MHz and 800 MHz Policy:

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- Brian Marenco, Electronics Engineer Brian.Marenco@fcc.gov (202) 418-0838;
- Roberto Mussenden, Attorney Advisor Roberto.Mussenden@fcc.gov (202) 418-1428; or
- Michael J. Wilhelm, Deputy Chief, Policy and Licensing Division michael.wilhelm@fcc.gov (202)418-0870.

Licensing:

- Tracy Simmons, Chief, Licensing Branch, Policy and Licensing Division, Gettysburg (717) 338-2657 or Mike Regiec, Engineer, (717) 338-2603