



Transition
Administrator

**800 MHz Transition Administrator
NPSPAC Regional
Prioritization Plan**

**APCO
January 31, 2005**

FCC Guidance to the TA

- **Establish a relocation schedule by NPSPAC Region**
- **Prioritize Regions based on population and interference**
- **Schedule adjoining Regions simultaneously as may be appropriate**
- **Complete Reconfiguration on a defined schedule**
 - 18-month, 20-Region benchmark: Complete Non-Nextel, Non-Southern LINC Channel 1-120 relocation, initiate NPSPAC negotiations
 - All Regions must start within 30 months of Start Date
 - All Regions must be complete within 36 months of Start Date
- **Recommend a Start Date for Reconfiguration**

Prioritization Plan Goals

- **Follow FCC guidance as closely as possible, consistent with the overall goals of Reconfiguration**
- **Consider the needs and experiences of stakeholders**
 - Meeting the public interest needs of stakeholders
 - 800 MHz band a complex, interrelated environment spanning Regions
 - Reconfiguration must not disrupt mission critical systems
 - Minimize number of touches to equipment in the field
- **Factor international border constraints into the solution**
 - Timetable recognizes the challenge of international border negotiations
- **Balance work load across Regions**
 - Availability of human and equipment resources
 - Capabilities of key equipment manufacturers and product cycles
 - Cost-effectiveness

Prioritization Plan Process — Outreach



- **Conduct licensee and association outreach**
 - Press releases requesting input, survey by mail, manufacturer meetings
 - Meetings with licensees and associations that requested discussions
- **Received 50+ comments, 145+ entities in 35+ Regions**
- **Met with 20+ licensees, associations, and manufacturers**
- **Outreach effort provided vital input to the Plan**
 - Key Regions need to reconfigure together
 - Seasonal weather/work cycles require an extended retuning period
 - Impact of international border agreements on achieving schedules
 - Additional reports of interference to Public Safety systems
 - Timing of procurement/contracting in Public Safety and CII organizations
 - Availability of equipment and firmware/software required for retuning

Prioritization Plan Process — Data Analysis and Clustering

- **Analyze multiple datasets**
 - Five million licensee records from FCC ULS database
 - Merge interference reports from APCO and Nextel
 - Add PSR Region, international border, demographic data
 - Create specialized query and mapping tools
 - Research public record in FCC Docket No. 02-55

- **Identify Regional clusters**
 - Interconnectedness of Regions determined via outreach comments
 - Licensed entities, base station density along and across Region boundaries

Prioritization Plan

■ **Four Waves of NPSPAC Regions**

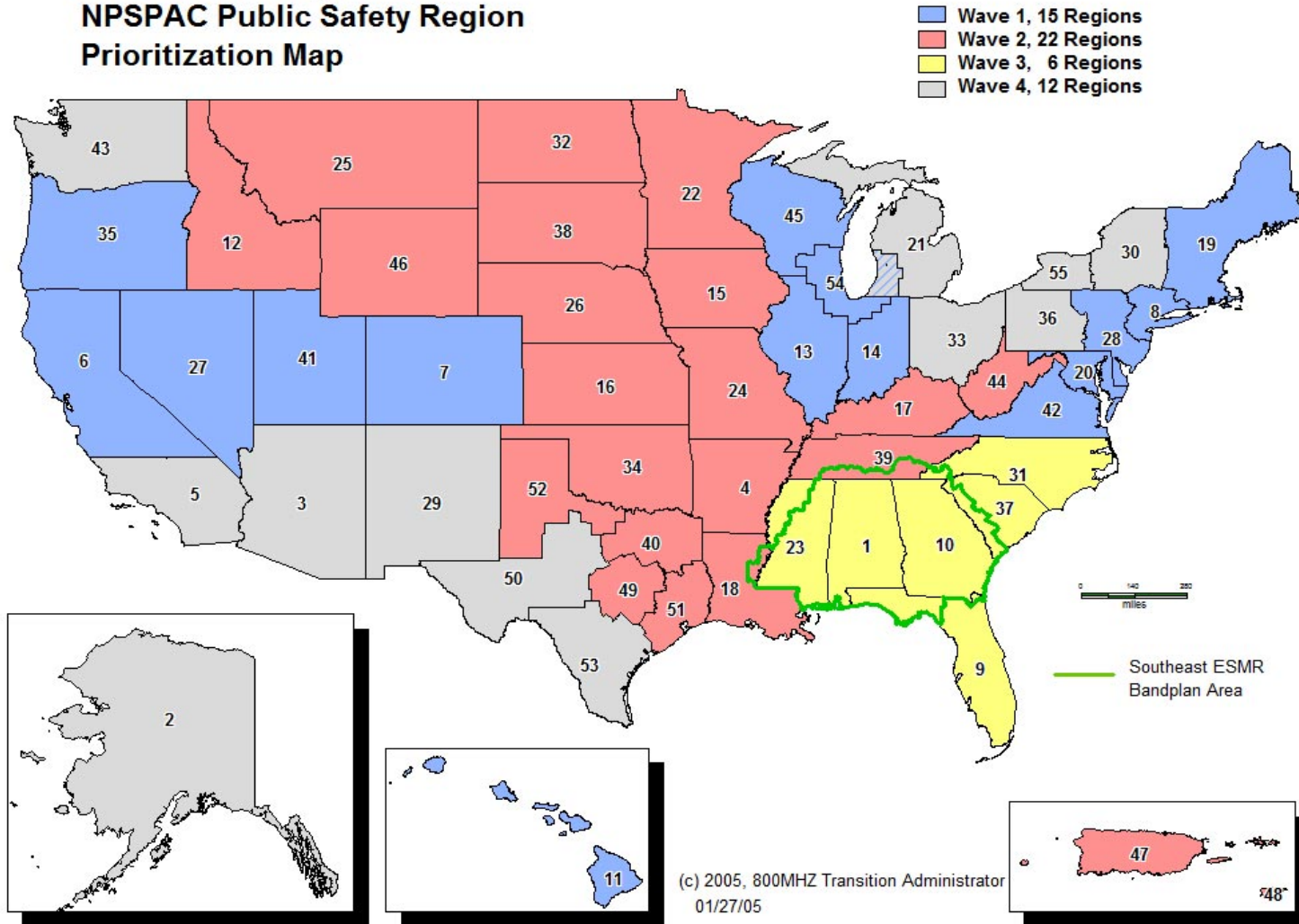
- Overlapping mandatory negotiation and reconfiguration periods within each Wave
- 1-120 band gets minimum 9 mo. retuning, NPSPAC gets minimum 15 mo.
- NPSPAC negotiations in each Region start as soon as 1-120 sufficiently complete
- TA envisions additional FCC Public Notices announcing the start of each NPSPAC period

■ **Special process for large systems in more than one wave**

- Multi-Wave entities begin Reconfiguration with the 1st Wave in which they have systems
- Encouraged to start with the 1st Wave even if they have no systems in that Wave

Proposed Prioritization Waves

800 MHz Reconfiguration NPSPAC Public Safety Region Prioritization Map



Key Clustering Decisions

■ Clustering NY Metro Region 8

- NY Metro Region 8 must move with the Boston to DC corridor Cluster or interlocked regions are delayed
- Region 8 could also be clustered with Regions 30 (Eastern Upstate NY) and 55 (Western Upstate NY). However, border issues for Regions 30 and 55 would delay reconfiguration of high population/interference area along eastern seaboard

■ Border constraints limit options for other Clusters

- California (Regions 5, 6) and Pennsylvania (Regions 28, 36) state-wide systems will be addressed individually
- Splitting Region 54 (Chicago Metro) at the Michigan border seems the most effective solution for the highly-integrated Extended Chicago cluster
- Oregon (Region 35) is a high-interference Region that should be addressed early. Vancouver, WA will be coordinated from rest of Washington Region (Region 43) if necessary

■ Clustering Missouri (24) and Illinois (13)

- Extended Chicago Cluster should move in the 1st Wave due to interference and population
- Kansas and Missouri must move together but workload of 1st Wave deemed excessive
- East St. Louis area reconfigured separately from Region 13 to move with St. Louis, MO

Timing of Prioritization Waves

18 Months

	2005 Q3	Q4	2006 Q1	Q2	Q3	Q4	2007 Q1	Q2	Q3	Q4	2008 Q1	Q2
Wave 1 1-120 Negotiations	[Blue Bar]											
Wave 1 1-120 Reconfiguration		[Blue Bar]										
Wave 1 NPSPAC Negotiations			[Blue Bar with PN Window]		[Blue Bar]							
Wave 1 NPSPAC Reconfiguration				[Blue Bar with Dotted Pattern]		[Blue Bar]						
Wave 2 1-120 Negotiations		[Red Bar]										
Wave 2 1-120 Reconfiguration			[Red Bar]									
Wave 2 NPSPAC Negotiations				[Red Bar with PN Window]		[Red Bar]						
Wave 2 NPSPAC Reconfiguration					[Red Bar with Dotted Pattern]		[Red Bar]					
Wave 3 1-120 Negotiations			[Yellow Bar]									
Wave 3 1-120 Reconfiguration				[Yellow Bar]								
Wave 3 NPSPAC Negotiations					[Yellow Bar with PN Window]		[Yellow Bar]					
Wave 3 NPSPAC Reconfiguration						[Yellow Bar with Dotted Pattern]		[Yellow Bar]				
Wave 4 1-120 Negotiations				[Grey Bar]								
Wave 4 1-120 Reconfiguration				[Grey Bar]								
Wave 4 NPSPAC Negotiations						[Grey Bar with PN Window]		[Grey Bar]				
Wave 4 NPSPAC Reconfiguration							[Grey Bar with Dotted Pattern]		[Grey Bar]			

Actual dates depend on treaties

- Notes: 1. PN Window is period during which Public Notices announce start of NPSPAC Region negotiations
- 2. Multi-Wave entities will typically start Reconfiguration during the 1st Wave in which they have systems

Comparison With Plan Goals

	Wave 1	Wave 2	Wave 3	Wave 4
Population Covered	38%	22%	15%	25%
Interference Complaints	55%	4%	10%	31%
Workload	31%	19%	25%	25%

Note: Starting Wave 4 depends on border treaties

Reconfiguration Start Date

- **Definition of Reconfiguration Start Date:**
 - **Official date when voluntary negotiations must begin between Nextel and licensees for the first Wave of Regions**
 - **Reconfiguration cost estimates can also be submitted by licensees prior to this date under certain circumstances**

- **Start Date for the 1st Wave of Regions is planned for 06/27/2005**

Key Prerequisites/Assumptions for Reconfiguration Start

- Nextel acceptance of the R&O
- FCC approval of the Prioritization Plan
- No material changes to the process result from Reconsiderations to the R&O / Supplemental Order
- EA and other elections completed
- Any Reconfiguration-specific FCC licensing processes ready
- Nextel selects Trustee & executes Tri-Party Agreement
- Nextel & TA implement processes to support Reconfiguration & associated funding
- Nextel & TA staffed and ready to support Reconfiguration start
- Licensee education: Develop training materials on Reconfiguration and funding process & conduct training
- Frequency assignments for 1st wave of licensees ready by 6/1/2005