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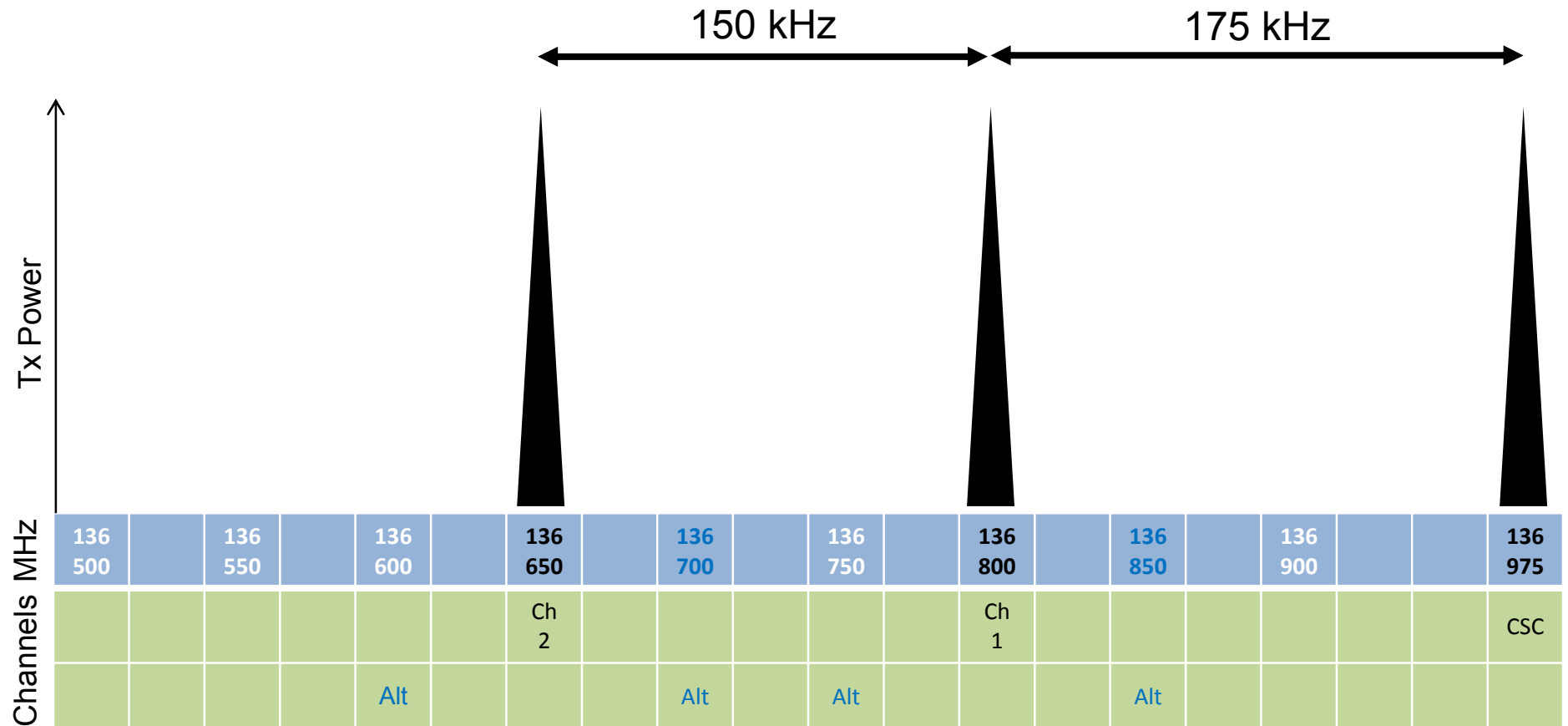
VDLM2 Implementation Plan

AFC Fall Meeting 2014

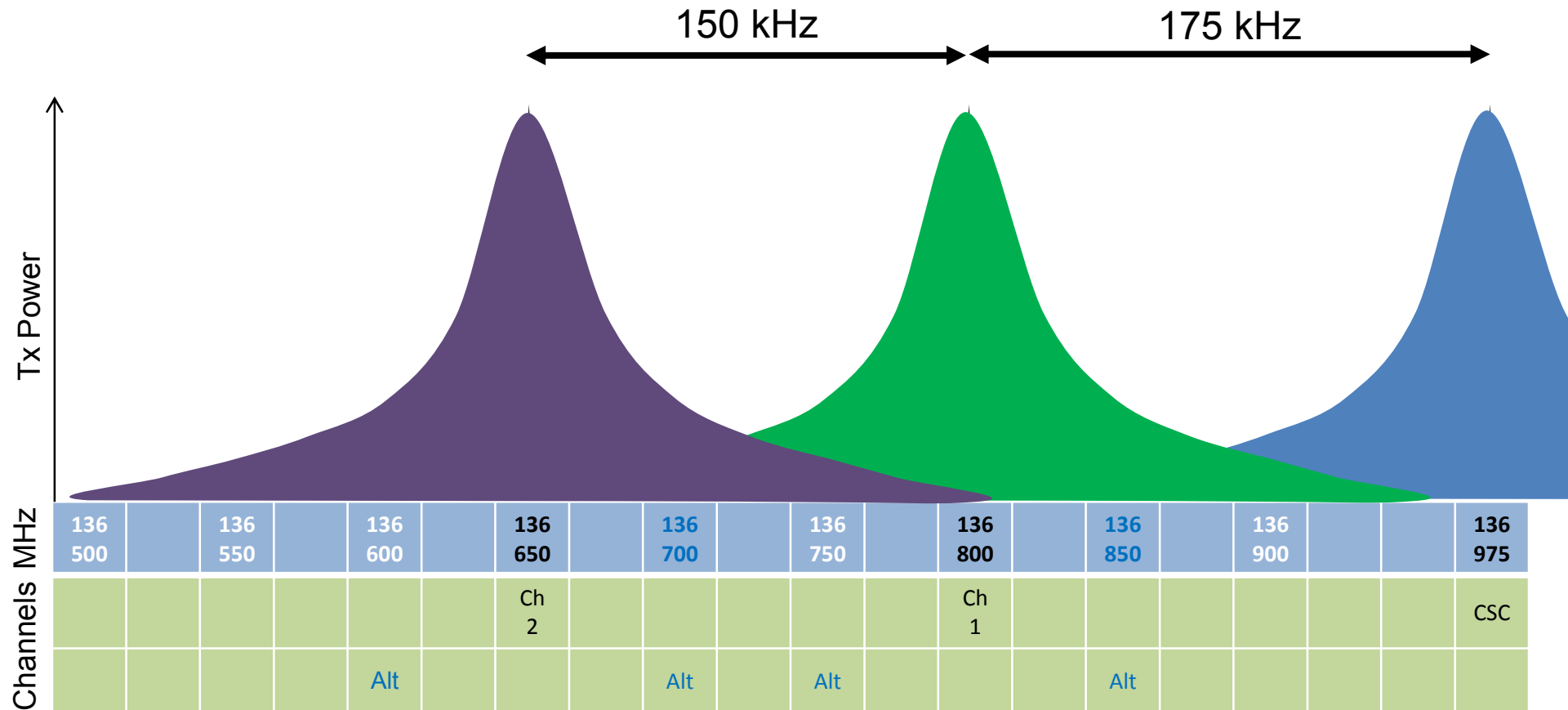
Background

- ARINC/RC and SITA have formally requested additional VDLM2 channels
 - Future capacity required for AOC data growth
 - DataComm service requirements
- AFC channel plan created in 2010 for VDLM2 networks
 - Utilizes the upper 136 MHz band
 - Dedicated frequency for each DSP
 - Options for additional capacity
- VDLM2 signal not compatible with adjacent assignments
 - VDLM2 co-site interferes with adjacent users

AFC Agreed VDLM2 Channel Plan



VDLM2 Co-site Coordination



Previous Meeting

- ASRI proposed an implementation method after working with both DSPs.
 - Assign new VDLM2 channels while minimizing impact on existing users
- Planning for 4 phase process from initiation on 1 Jul 2014
 1. Reorganize lower AOC voice users
 2. Migrate affected voice users from upper AOC
 3. Migrate ACARS networks
 4. Assign new VDLM2 frequencies

Planning considerations

- License modification costs
 - DSPs will subsidize regulatory costs
- Increased congestion in lower band
 - Interference mitigation
- Movement of SITA ACARS base frequency
 - Impact on spectrum and customers

Progress

- AFC approved implementation of Phases 1&2 to clear way for VDLM2
 - Migration of most upper band users
 - Clearing voice users on 129.350, 131.650, & 131.725 MHz for ACARS movement
 - Movement of de-icing users from 129.525 MHz starting next season
- ASRI has notified all 113 affected voice users
 - 54 have begun migration
 - Some users are remaining in the lower 136 MHz band (reorganizing to ensure frequency separation from VDLM2 assignments)

Plan modification

- Proposal to split Phase 3 into two parts (A&B)
 1. Reorganize lower AOC voice users
 2. Migrate affected voice users from upper AOC
 3. *Migrate ACARS networks*
 - A. *Migration of ACARS assignments on 136.575, 136.650 and 136.800*
 - B. *Migration of ACARS on 136.850?*
 4. Assign new VDLM2 frequencies

Phase 3A Proposal

	2014		2015		2016		2017	
	07/01	01/01	07/01	01/01	07/01	01/01	07/01	01/01
136.575	ACARS	ACARS Migration**	Cleared					
131.725*	Clearing Voice	↪	ACARS					
136.650	ACARS	ACARS Migration**	VDLM2 ARINC/RC					
129.350	Cleared	↪	ACARS					
136.800	ACARS				ACARS Migration	VDLM2 SITA		
129.525	De-icing				↪	ACARS		

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AFC Approval of Phase 3A?

Going Forward

- Complete voice user migration
- Discussions with SITA on ACARS base frequency move
- Finalize remaining plan phases at the next AFC meeting.

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Questions?