



AFC Meeting Report

AFC Winter 2016 Meeting – Albuquerque, NM

Summary Topics

- AFC Membership Changes
- WRC-15 Results
- WRC-19 Preparation
- LightSquared/Ligado
- SELCAL
- AeroMACS
- ASRI Frequency Utilization
- DataComm Deployment
- AFC Manual Review
- Next AFC Meeting Locations

AFC Membership Changes



- Chevron – New application
 - Tim Guidry
- FedEx – Change of personnel
 - Tom Wainscott replaced by Chris Naugle
- NATA – Change of personnel
 - Amy Koranda replaced by Megan Eisenstein
- IATA – Renewed application
 - Noppadol Pringvanich

WRC-15 Results



- Aviation's result was good/excellent
 - Achieved majority of new spectrum and protections
 - Several internal aviation divisions that may have repercussions
- IMT did not win as much spectrum as expected
 - New focus on higher bands
 - Will be back for more lower band spectrum

WRC-19 Preparation



- Aviation specific items to be worked
 - GADSS
 - Space planes
 - Complete GFT studies
- Other industries may indirectly affect aviation systems in next 3 years
 - Train systems
 - Wireless Power Transfer

Ligado/LightSquared



- ASRI planning to file against Ligado position in the coming months
 - Will coordinate with AFC membership to sign on to position
- Three concerns to address
 - Certified aviation receivers
 - Non-certified aviation receivers
 - NOAA weather data frequencies
- ASRI producing information sheets with the draft filing to encourage management support

SELCAL



- AEEC 714A Mark 4 Airborne Selective Calling Characteristic was approved September 23-24, 2015
- The RTCA SC-232 completed the development of a new Minimum Operational Performance Standard (MOPS) for the SELCAL system
 - Avionics backward compatibility bench and flight testing was successfully completed in 2015
 - RTCA PMC for final approval on March 17, 2016.
- The ICAO Communications Panel Meeting scheduled for Oct 2016.
 - ASRI will submit a paper summarizing the results and progress

AeroMACS



- The RTCA SC-223 has completed the MOPS and is expected to reconvene to address system security
- ICAO WG-S has completed the SARPs
 - Now developing the Technical Manual for end of 2016
- The AEEC formed an AeroMACS Working Group
 - Tasked with defining an airborne radio suitable for installation in all types of aircraft
 - End of 2016 deadline
- FCC allocation waiting approval of WRC-07 NPRM
 - Understand WiMAX forum is developing proposal for Part 87 service rules
 - ASRI monitoring to ensure airline interests are maintained

ASRI Frequency Utilization



- Congestion – 6,192 current assignments.
- 128 channels in lower-band total.
 - 32 are secondary to Canada (90% of CAN assignments within 100 miles US boarder).
 - 32 are US primary.
 - 64 are shared US/CA.
- 9 channels set aside for data networks.
- 119 channels available for voice.

VDLM2 Implementation Plan



- Joint industry proposal to implement a method with ASRI, CSPA and Harris.
 - Assign new VDLM2 channels to meet DataComm, while minimizing impact on existing users
- Planned for 4 phase process from initiation on 1 Jul 2014
 1. Reorganize lower band AES voice users
 2. Migrate affected voice users from upper AES band
 3. Migrate upper band ACARS networks
 - a) Secondary ACARS networks (3)
 - b) SITA ACARS base frequency
 4. Assign new VDLM2 frequencies
 - a) Upper 136 MHz band
 - b) Lower 136 MHz band

DataComm Deployment



- ACARS POA has been recommended by DCIT for DataComm enroute services
 - Supported by FAA
- Proposal by ARINC/RC to change 136 band reorganization
 - Raised some technical and operational concerns
 - AFC reviewing questions raised before next AFC meeting
- Continuing discussions with FAA on licensing for lower 136 band
 - ASRI proposal is to directly license with FCC for all of 136 band
 - WileyRein engaged for legal confirmation

AFC Manual Review



- Comprehensive review of AFC Manual
 - New technologies/ways of working
 - Relevance of existing policies
 - Policy to meet how we actually operate
 - Eliminate redundancy and over complexity
 - Still need to maintain FCC compliance
- AFC SWG created
 - Will be provided to board for review and ratification throughout 2016

Next AFC Meetings



- 7-8 June 2016 – Portland, OR
- 25-26 Oct 2016 – Austin, TX