



WRC-15 Position for AFC

AFC Fall 2015 – Montreal

AFC WRC-15 Positions



- Review the relevant agenda items
- Confirm prioritization and positions
- Seek opinions on future agenda items

WRC-15



- 2-27 November 2015, Geneva, Switzerland
 - Last WRC was in Feb 2012
 - ASRI sending 2 personnel (US Del and Sector)
- 15 Agenda Items relevant to AFC
 - Prioritized to 6 agenda items
 - Consideration of future agenda items
- Proposed positions broadly follow that of ICAO, IATA and US
- Some fun items on the list
 - IMT, UAS, & GFT

Topics to be covered



- Prioritization split into high and important items
 - Limits of personnel/time
- High
 - 1.1 – IMT
 - GFT – Global Flight Tracking
- Important
 - 1.4 – Amateur HF
 - 1.5 – UAS
 - 1.7 – AeroMACS
 - 1.17 – WAIC

WRC Process - Recap



- Begins at the previous conference with new agenda items for the next WRC
- New agenda items are assigned to a relevant ITU-R Working Party (WP)
- Several ITU-R Recommendations and Reports to support the development of the work
- In the 12 months before the WRC, a Conference Preparatory Meeting (CPM) is held
- Final CPM text is a template for the WRC
- ITU-R Radio Regulations are updated once with agreements from the WRC

1.1 - IMT



- New allocations for IMT shared with existing users between 400 MHz to 6 GHz
 - Dedicated JTG process
- Potential aviation systems affected
 - PSRs (1.3-1.35 & 2.7-2.9 GHz)
 - Adjacent bands to radio altimeter (4.2-4.4 GHz)
- AFC Position
 - Oppose changes that will affect aviation

GFT – Global Flight Tracking



- Possible options to support GFT
 - Focused on ADS-B over satellite by modifying existing ADS-B allocation at 1090 MHz
- Introduced at last minute after MAH370
 - Process is creating some opposition and concerns
- AFC Position
 - Support necessary allocation
 - Must show compatibility with existing ARNS systems and ITU-R procedures
 - No changes to the aircraft equipage
 - Reliability is appropriate for an AMS(R)S allocation

1.4 – Amateur HF

- New amateur allocation in the 5 MHz range
 - Adjacent to Aero HF allocation
- Studies not fully considered aero HF systems
 - Opposition from other countries using the same frequency range
- AFC position
 - Seek minimum of 20 kHz of separation

1.5 – UAS over satellite



- Use of FSS for UAS command links
 - Remote and oceanic control requirements
- Quickly turned into a political football
 - Strong views have prevented progress
 - Work remains unfinished
- AFC Position
 - Support UAS operations over satellite
 - Preference for an AMS(R)S allocation

1.7 – AeroMACS interference levels



- FSS in 5091-5150 MHz increasing allowable interference from AeroMACS
 - Would also allow FSS allocation to become permanent
- Both sides want the same outcome
 - Existing AeroMACS plans unlikely to interfere with satellites
- AFC Position
 - Support FSS allocation for increase in AeroMACS interference levels

1.17 – WAIC



- New concept for internal wireless network on an aircraft
 - Boeing/Airbus concept system
- Sought to reuse existing aviation spectrum
 - Radio altimeter band most suitable
- AFC Position
 - Support WAIC systems
 - Guaranteed radio altimeter protection

Future Agenda Items



- GADSS
- IMT above 6 GHz
- Space planes
- C-band IMT



Questions?