

**World Radiocommunication
Conference 2007 (WRC-07)
Summary of Results For HF**

What is the World Radiocommunication Conference?



- **Held by the International Telecommunication Union (ITU), the UN agency for telecommunications**
- **Global forum, held every four years to update/modify the international Radio Regulations**
- **The international Radio Regulations form the basis for individual countries to develop their own radio regulations**
- **Ability of our deployed forces to gain access to spectrum is dependent on the outcomes of WRCs**


World Radiocommunication Conference

Overview



- **When: 22 October to 16 November 2007**
- **Where: Geneva, Switzerland**
- **Who: Representatives from over 150 governments, as well as major spectrum-dependent industries**
- **Over 150 members on US Delegation; 30 from DoD**
- **DoD representation from MilDeps, DISA, and OASD/NII**
- **Purpose: modify the international Radio Regulations**

WRC-07 Agenda Items of High Concern to DoD



- Upgrade Allocations for X-band Radar
- Identification of Spectrum for International Mobile Telecommunications (IMT)
- New Spectrum For Aeronautical Mobile Telemetry
- Additional Allocations to the Aeronautical Mobile Service (Civil)
- Satellite Network Coordination Procedures
- **High Frequency (HF) Band Review (4 - 10 MHz)**
- Power Flux Density Limits in the Band 17.7 – 19.7 GHz
- Compatibility Between Earth Exploration Satellite Systems and Active Services
- Identification of Future WRC Agenda Items

High Frequency (HF) Band Review



- **Shortwave broadcasters sought new allocations in the 4-10 MHz Band**
 - Potential 250-800 kHz loss – up to 90% of DoD's assignments in the band
 - Band allocation review could have resulted in loss of spectrum or new requirements to share spectrum
- **Overwhelming majority of nations opposed new broadcast allocations and added sharing**
 - European Region forced to withdraw proposal to allocate 350 kHz to broadcasting
- **Dr Eric Johnson provided two seminars**
 - Broadcasters attended and asked many questions
 - Delegates reported they were uninformed about advances in HF technologies – particularly HF over Internet
 - Need for wide bandwidth channels was made clear

High Frequency (HF) Band Review



- **Outcome**
 - No change to the Radio Regulations in the 4-10 MHz band
- **Impact to operations: None.**
 - No loss of critical HF spectrum
 - No imposition of new sharing conditions
- **Lessons learned**
 - Manage the perception of HF technology
 - Advocacy for more spectrum is well understood if higher data rates for familiar applications (ie internet) are the stated result
 - Seize opportunities to educate those who have influence
 - Impact of spectrum loss must be conveyed to decision makers
 - Real world focus: Indian Ocean Tsunami case study was helpful
 - Industry engagement in the process lends credibility
 - FCC has a process that takes into account industry concerns

HFIA Well Positioned to Influence

What's Next



- **HF issues continue at WRC 2011**
 - Focus is maritime safety and security systems
 - Could be pertinent to any network with maritime users
- **DoD and Coast Guard will be engaged within the US government's preparation process**
- **Industry can participate through the FCC preparation process**