

ICAO AMCP WG-F/6, Lima



**FM SOUND BROADCAST COMPATABILITY WITH
AERONAUTICAL SYSTEMS**

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BRIEF HISTORY



- **ALLOCATION 87.5 - 108 MHZ TO FM SOUND BROADCASTING MADE AT ITU WARC 1979.**
- **HIGH POWER ALLOCATION IN FREQUENCY BANDS ADJACENT TO AERONAUTICAL BANDS (108 - 136 MHZ).**
- **INCREASED RISK OF INTERFERENCE.**

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BRIEF HISTORY



- **WORK STARTED IN ITU ON FM COMPATIBILITY WITH AERONAUTICAL SYSTEMS.**
- **4 BASIC INTERFERENCE MECHANISMS:**
 - 2 GROUND GENERATED
 - 2 AVIONICS GENERATED
- **ICAO MODIFIED STANDARDS FOR VHF AERONAUTICAL RECEIVERS EFFECTIVE 1995 - 1998.**

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BRIEF HISTORY



- **VHF COMMUNICATION RECEIVERS FOUND NOT TO BE A PROBLEM.**
- **ITU RECOMMENDATION PRODUCED IN 1992 BASED UPON LEGBC METHOD.**
- **FURTHER WORK NEEDED FOR ICAO POST 1998 FM IMMUNE RECEIVERS.**

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EXPERIENCE TO DATE



- **COORDINATION PROCEDURES BETWEEN BROADCASTERS AND AERONAUTICAL BODIES SEEM TO WORK.**
- **NOT ALL STATES REQUIRE RETROSPECTIVE AVIONICS FIT.**
- **PROBLEMS STEM FROM ILLEGAL AND/OR UNCOORDINATED USE.**

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ICAO POSITION



- **TO ENCOURAGE STATES TO SET UP COORDINATION AGREEMENTS.**
- **USE LEGBAC PROCEDURES AS A GUIDE TO DEVELOPING COORDINATION AGREEMENT.**
- **DEVELOP APPROPRIATE SOFTWARE FOR COMPATABILITY ASSESSMENT.**

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THE FUTURE



- **MODIFY ITU RECOMMENDATION**
 - UPDATE
 - GBAS/GRAS

- **MAKE LEGBAC INFORMATION FREELY AVAILABLE.**