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INTERNATIONAL CIVIL AVIATION ORGANIZATION

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Agenda item 9.2

Global Maritime Distress and Safety System (GMDSS)

Damon C. Ladson

Technical Policy Advisor
HWG LLP

WRC-27 Regional Preparatory Workshop
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IN THIS SESSION

- 01 Background
- 02 Resolution 365 and the two options
- 03 Potential issues
- 04 ICAO position and conclusion

Agenda item 9.2 at a glance

WHAT IT IS

The Bureau Director's report

A standing Agenda Item on difficulties or inconsistencies met in applying the Radio Regulations, with comments from administrations

THE MATTER HERE

Resolution 365 (WRC-23)

Frequency bands provisionally identified at WRC-23 for geostationary satellite networks in the GMDSS

RESPONSIBLE GROUP

None

Agenda item 9.2 has no WRC-27 study resolution and no responsible working party

AVIATION STAKE

AMS(R)S 1610-1626.5 MHz

Both frequency band options lie inside the frequency band allocated to the aeronautical mobile-satellite (R) service under No. 5.367

WHERE THE MATTER STANDS

WRC-23 provisionally identified two frequency band options inside 1610-1626.5 MHz for geostationary satellite networks in the GMDSS. That identification stands only if the notifying administration completes satellite coordination and the Radiocommunication Bureau confirms it. The coordination has not been completed, so the report the Director makes to WRC-27 governs what the conference can do.

Background

- Agenda item 9.2 is a standing sub-item of Agenda item 9. It covers the report of the Director of the Radiocommunication Bureau on difficulties or inconsistencies met in applying the Radio Regulations, together with the comments of administrations. It has no study resolution and no responsible working party.
- WRC-23 provisionally identified two frequency band options for the use of geostationary satellite networks in the Global Maritime Distress and Safety System: 1614.4225-1618.725 MHz and 1616.3-1620.38 MHz. Both lie inside 1610-1626.5 MHz, which is allocated to the aeronautical mobile-satellite (R) service on a primary basis under No. 5.367, subject to agreement under No. 9.21.
- Resolution 365 (WRC-23) makes the identification conditional. It stands only if the Bureau confirms that the notifying administration of the proposed GMDSS system has completed the required satellite coordination procedures. The Director reports to WRC-27 on that point.

THE TWO PROVISIONALLY IDENTIFIED FREQUENCY BAND OPTIONS

Option 1: 1614.4225-1618.725 MHz

Option 2: 1616.3-1620.38 MHz

Source: Resolution 365 (WRC-23); ICAO Position for WRC-27, Agenda item 9.2.

What Resolution 365 (WRC-23) requires

The identification made at WRC-23 stands only if one condition is met before WRC-27

The Bureau confirms that the notifying administration has completed the required satellite coordination procedures



The Director reports to WRC-27

Confirmation received. WRC-27 may evaluate the provisional measures taken at WRC-23 and decide whether to make the identification permanent. The ICAO position applies to that decision.

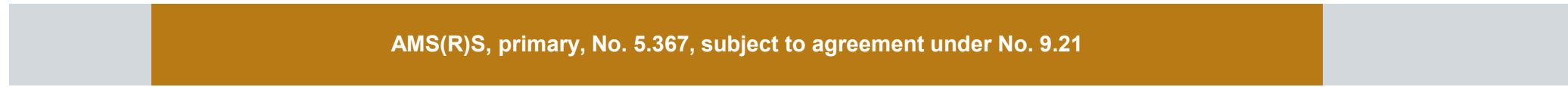
Confirmation not received. The condition in Resolution 365 (WRC-23) has not been met. An administration may move at WRC-27 to suppress the provisional identification, or a request may be made to extend it.

The coordination has not been completed. Administrations should prepare for both outcomes.

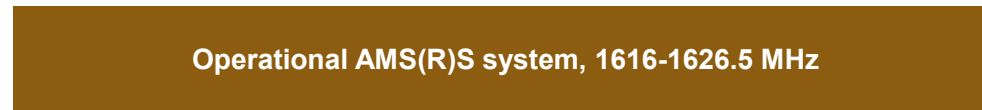
Where the two options lie

Both provisionally identified frequency band options fall inside the aeronautical mobile-satellite (R) service frequency band

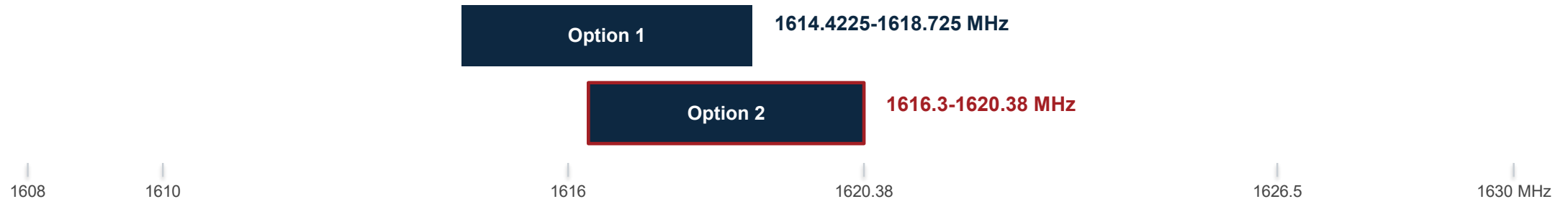
AVIATION ALLOCATION



OPERATIONAL USE



PROVISIONALLY IDENTIFIED FOR GMDSS, RESOLUTION 365 (WRC-23)



Option 2 lies further inside the frequency range in which the aeronautical mobile-satellite (R) service is operating. Frequency band edges from Resolution 365 (WRC-23) and No. 5.367.

Potential issues

01

Coordination has not progressed. The notifying administration has not completed coordination with the potentially affected systems, which is the condition on which the provisional identification depends.

02

Option 2 reaches further into operational spectrum. 1616.3-1620.38 MHz lies inside the frequency range in which an aeronautical mobile-satellite (R) service system is operating today.

03

Interference reports. Interference has been reported across 1610-1626.5 MHz and attributed to the notifying administration's system. The interference (to multiple systems) is unresolved, and that question stands whatever WRC-27 decides about the GMDSS identification.

04

Suppression or extension. An administration may move to suppress the provisional identification. A request may instead be made to extend it to WRC-31. Though at WRC-23 administrations have shown limited patience for further consideration..

ICAO position

Source: ICAO Position for the ITU World Radiocommunication Conference 2027, Agenda item 9.2.

Note. If coordination under Resolution 365 (WRC-23) has been successfully completed, then ICAO has the following position.

To ensure that any decision at WRC-27 following report from the Director of the BR requested by Resolution 365 (WRC-23), would not have negative impact on AMS(R)S in the frequency band 1610-1626.5 MHz.

FREQUENCY BANDS CONCERNED

1610-1626.5 MHz, AMS(R)S, No. 5.367

Option 1: 1614.4225-1618.725 MHz

Option 2: 1616.3-1620.38 MHz

What the position depends on. The position is conditional. If the Bureau does not confirm that coordination is complete, the question before WRC-27 becomes what to do with an identification whose condition has not been met, and the aviation interest in 1610-1626.5 MHz is the same in either case.

Conclusion

01

The ICAO position is conditional, and the condition is not yet met. It applies if the coordination required by Resolution 365 (WRC-23) has been completed and the Bureau has confirmed it. Coordination with the potentially affected systems has not progressed, and if it is not completed before WRC-27 the provisional identification made at WRC-23 may be suppressed.

02

The aviation interest is the same either way. Both options lie inside 1610-1626.5 MHz, which is allocated to the aeronautical mobile-satellite (R) service on a primary basis under No. 5.367. Interference reported across that frequency band and attributed to the notifying administration's system is a matter to pursue whatever WRC-27 decides about the identification.

Thank you

Damon C. Ladson

Technical Policy Advisor, HWG LLP

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