



International Civil Aviation Organization

**NINETEENTH MEETING OF THE COMMUNICATIONS/NAVIGATION
AND SURVEILLANCE SUB-GROUP (CNS SG/19) OF APANPIRG**

Bangkok, Thailand, 20 – 24 July 2015

Agenda Item 7: Aeronautical electromagnetic spectrum utilization

**7.2: Review Report of Regional Preparatory Group Meeting
(APT-APG2015-4) for WRC-2015**

**OUTCOMES OF REGIONAL PREPARATORY GROUP MEETING
(APT-APG2015-4) FOR WRC-2015**

(Presented by the Secretariat)

SUMMARY

This paper presents the outcomes of the fourth meeting of the Asia-Pacific Conference Preparatory Group for WRC-15 (APT APG2015-4) was held from 9 to 15 Feb. 15 in Bangkok, Thailand

1. INTRODUCTION

1.1 The fourth meeting of the Asia-Pacific Conference Preparatory Group for WRC-15 (APT APG2015-4) was held from 9 to 15 Feb. 15 in Bangkok, Thailand.

1.2 More than 300 Total participants from national frequency spectrum policy makers from Administrations in the Asia-Pacific Region, APG Secretariat, ITU-R, representatives of civil aviation Administrations including Australia, India, Malaysia, New Zealand, Thailand, and other regional organizations including CITELE and CEPT attended the meeting.

1.3 The report is available at <http://www.apc.int/2015-APG15-4> (secured access).

2. DISCUSSION

Agenda items 1.1 protection of existing spectrum

2.1 No consensus could be reached on this item, with even new risks on 2700-2900 MHz sub band with one State supporting an IMT allocation.

2.2 The issue for civil aviation is mainly spectrum for L-band and S-band primary surveillance Radar (around 1.3 and 2.7 GHz) and C-band VSAT (3.4 – 4.2 GHz).

Agenda items 9.1.5 protection of existing spectrum

2.3 On AI 9.1.5, the stake is to ensure protection of VSATs used for the transmission of aeronautical and meteorological information in the frequency range 3.4 – 4.2 GHz from other services operating in the same or adjacent frequency range. Considering that existing communication links in APAC rely on VSAT solutions and that the Common Regional VPN aeronautical network (CRV) in APAC could rely for a number of sites on VSAT technology

Agenda item 1.5 potential use of FSS allocations for RPAS C2 links.

2.4 This AI was still controversial with overall two Methods supported pending ITU-R studies, while some APT Members remain open to other Methods.

2.5 Supporting Method A: UAS CNPC links could be supported on the basis that systems operating in the FSS have the capability to provide reliable BLOS communications between unmanned aircraft and control stations, and UAS already operate in segregated airspace using FSS frequency bands for unmanned aircraft to satellite links under No. 4.4 of the Radio Regulations

2.6 The solution promoted should sufficiently address aviation safety concerns as laid out in the three conditions contained in the ICAO Position.

Agenda item 1.6 Additional FSS allocations (1.6.1 / 1.6.2)

- 2.7 This AI would need further harmonization, following bands were considered:
- 14.5-14.8 GHz ensure the integrity and adequate protection of the AP30A Plan and List in Region 3 from any new fixed-satellite service utilization of the band in Region 1
 - bands 10.6-10.7 GHz and 13.25-13.75 GHz (ARNS, airborne Doppler radar) should be excluded
 - if 13.4-13.75GHz the protection of EESS (active) in Region 3

Agenda item 1.10 (MSS to support IMT)

2.8 Noting that ITU-R sharing studies were not complete, APT Members, at this stage, did not support any additional allocation to MSS within the frequency range 22 – 26 GHz and thus supported Method A of the Draft CPM Report, which is compatible with ICAO position. However there would be a need to monitor new methods developed.

Other items 1.7 (band 5 091-5 150 MHz by the fixed-satellite service), 1.11 (EESS in the 7 – 8 GHz range) and 1.17 (WAIC)

2.9 They were found reasonably in line with ICAO position.

Global Flight Tracking

2.10 There was an ad hoc group created in APT to develop draft preliminary views which support the existing studies within the ITU-R WP 5B.

Participation in APT-APG5

2.11 The fifth and final meeting of the cycle, APT-APG5, is planned from 27 July-01 August 2015, in Seoul, Republic of Korea. All Civil Aviation Authorities of APAC States/Administrations are urged to participate in that meeting, to promote positions taking into account the update to the updated ICAO Position for WRC-15, as approved by Council on 17 June 2015.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) urge APAC States/Administrations to participate in APT-APG5, planned from 27 July-01 August 2015, in Seoul, Republic of Korea to promote positions taking into account the update to the updated ICAO Position for WRC-15, as approved by Council on 17 June 2015; and
- c) discuss any relevant matters as appropriate.
