



ICAO

*International Civil Aviation Organization***Twenty Seventh Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/27)
of APANPIRG**

Bangkok, Thailand, 28 August - 1 September 2023

Agenda Item 10: Review Status of CNS deficiencies (APANPIRG Deficiency List)**REVIEW STATUS OF CNS DEFICIENCIES**

(Presented by the Secretariat)

SUMMARY

This paper presents information on the progress in resolving the deficiencies in the CNS fields.

1. INTRODUCTION

1.1 Under the Terms of Reference, the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) has been regularly reviewing the status of implementation of the Asia Pacific Air Navigation Plan through its subgroups to identify and address the air navigation deficiencies according to the uniform methodology approved by the ICAO Council. In meeting this objective, APANPIRG facilitated the development and implementation of action plans by States to resolve identified deficiencies, where necessary.

1.2 APANPIRG/33 (22 – 24 November 2022) noted the list of Air Navigation Deficiencies in CNS field which was reviewed and updated by CNS SG/26.

2. DISCUSSION

2.1 The updated List of Air Navigation Deficiencies in the CNS field was presented in APANPIRG/33. The issue related to unreliability of AFS communication between Afghanistan and Pakistan had been an outstanding AFS communication deficiency.

2.2 Poor performance of AFS including data communication between Kabul and Karachi and ATS voice communication between Lahore and Kabul had become issues of regional concerns. A COM coordination meeting (Afghanistan, China and Pakistan) held in July 2019 in ICAO APAC Regional Sub-Office agreed to restore the VSAT connection by upgrading the VSAT terminals and equipment in Lahore and Karachi. Afghanistan Civil Aviation Authority would provide assistance and Network Control Centre settings. Both Afghanistan and Pakistan were also agreed to implement CRV as soon as practical.

2.3 During CNS SG/26 meeting, Pakistan stated that they upgraded the hardware of VSAT from IDU 3000 to IDU 5000 in the year 2007. In addition, a VPN link was established between Karachi

and Kabul through UK. Now the VPN link between UK and Kabul is un-serviceable. Pakistan identified that the data and voice communication through CRV is a workable solution. Pakistan Civil Aviation Authority has conveyed ICAO its intention to join CRV by December 2022. In the CNS SG/26 Meeting, Pakistan requested ICAO to provide assistance in establishing VSAT link and to coordinate with Afghanistan regarding their tentative timeline to join the CRV.

2.4 The ICAO APAC Regional Office benchmarked Deficiencies in CNS fields in other Regions for information that is openly available. It was noticed that not all Regions identified Deficiencies in CNS fields. For a Region that identified with Deficiencies in CNS field, these Deficiencies are related to requirements in Regional Air Navigation Plan and/or ICAO SARPs, such as ATS Direct speech circuits, Inter-Regional Communication link and HF service.

2.5 The current List of Air Navigation Deficiencies in the CNS field by APANPIRG/33 is provided as **Appendix A** to this paper for meeting review and update.

2.6 According to the APANPIRG Procedural Handbook, *that appropriate International Organizations, including International Federation of Air Line Pilots' Associations (IFALPA), are valuable sources of information on deficiencies, especially those that are safety related.* The CNS SG/26 reviewed the IFALPA deficiencies which were originally presented in the Ninth Meeting of ATM Sub-Group (ATM SG/9). States/Administrations were encouraged to take note of CNS-related IFALPA deficiencies and take proper action to address these IFALPA deficiencies in the CNS SG/26 meeting.

2.7 Nothing that the international organizations such as IATA would also receive the implementation issues reported by Members, which are related to CNS, the Secretariat would invite input from Member States/Administrations and international organizations to together explore a way to enhance the ANS implementation in the region by identifying and addressing ANS deficiencies.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review and revise the **Appendix A** with the update by concerned States;
- c) note the proposal in paragraph 2.5; and
- d) discuss any relevant matter as appropriate.

CNS SG/27
Appendix to WP/19

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE CNS FIELDS IN THE ASIA/PACIFIC REGION

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
<p>Reliable ground to ground communication as specified in the regional Air Navigation Plan (Doc.9673)</p> <p>Tables CNS II-1; CNS II-2 & CNS II-3</p>	Afghanistan and Pakistan	Unreliability of AFS communication between Afghanistan and Pakistan was brought to the notice of APANPIRG/21. Lack of reliability in the AFS including data communication between Kabul and Karachi and ATS voice communication between Lahore and Kabul was identified.	September 2010	A follow-up COM coordination meeting held in July 2019 discussed way forward	<p>1. Site visits in Pakistan by expert from the VSAT service provider were made in February and March 2016. Remedial recommendations were provided to CAA. Pakistan. Pakistan requested ICAO to provide assistance in establishing VSAT link in 2022.</p> <p>2. Both Afghanistan and Pakistan agreed to as first step to recover the VSAT connection by upgrading terminals in Lahore and Karachi. Afghanistan will provide assistance and does the Network Configuration settings;</p> <p>3. A VPN link was established between Karachi and Kabul through UK. Now the VPN link between UK and Kabul is un-serviceable.</p> <p>4. Both States also agreed to implement CRV as soon as practical to resolve the existing COM deficiencies. Pakistan Civil Aviation Authority has conveyed ICAO its intention to join CRV by December 2022. Pakistan requested ICAO to coordinate with Afghanistan regarding their tentative timeline to join the CRV.</p>	CAA. Afghanistan and CAA. Pakistan	June 2020	A