



ICAO

*International Civil Aviation Organization***EIGHTH MEETING OF SPECTRUM REVIEW WORKING GROUP (SRWG/8)**

Bangkok, Thailand, 05 – 07 March 2024

Agenda Item 5: Review of Frequency Lists in the Region**REVIEW OF FREQUENCY LISTS**

(Presented by the Secretariat)

SUMMARY

This paper presents the status of Frequency Lists and the coordination on aeronautical frequency utilization for the region in 2023.

1. INTRODUCTION

1.1 The Third Asia/Pacific Regional Air Navigation Meeting (ASIA/PAC/3 RAN), held in Bangkok in 1993, agreed that the frequency lists prepared by the Asia and Pacific Regional Office will be the frequency planning documents for the Region.

1.2 States/Administrations are encouraged to coordinate with ICAO APAC Office for aeronautical services in the frequency bands of 190-526.5 kHz (NDB, Frequency List 1), 108-117.975 MHz, 960 – 1215 MHz (VOR, DME and ILS, Frequency List 2) and 117.975 to 137 MHz (VHF COM, Frequency List 3), as well as all others that may affect the use of aeronautical frequencies in other States/Administrations, e.g. frequencies for AM(OR) service.

2. DISCUSSION

2.1 The ICAO Asia and Pacific Office developed a standalone computer tool, Frequency Manager, to estimate, register assignments and generate the Frequency Lists 1, 2 and 3. New Editions of the lists have been issued on a regular basis. Any errors or discrepancies should be communicated to the ICAO Asia and Pacific Regional Office.

2.2 In 2016, the frequency coordination for VHF COM at APAC Regional Office was implemented with Frequency Finder tool. The up-to-date database (equivalent to Frequency List No. 3 in APAC region) is transparent and visible to all Frequency Finder users.

2.3 ICAO has been making continuous efforts in improving the Frequency Finder tool and encouraging States/Administration to implement the latest version released on the webpage of Frequency Spectrum Management Panel (FSMP) to make as much as possible benefits in transition to global database.

2.4 The Frequency Finder tool has incorporated VHF NAV module since 2020, and ICAO APAC Regional Office has started to introduce the (revised) frequency assignment planning criteria for

NAV¹ facilities, review the currency of the Frequency List No.2, in particular in the light of the increased congestion and even saturation of this band for future ILS or VOR frequency assignments as well as the expected implementation of GBAS/VDB, furthermore, ensure that the Frequency List 2 is correct and up-to date and lists all NAV stations that are currently in operation or planned.

2.5 ICAO APAC Regional Office has duplicated its work on the VHF NAV module of Frequency Finder as well as on the existing Frequency Manager for new facility frequency planning upon request from States. It was observed that the consistency between the Frequency Manager and Frequency Finder is very satisfactory.

2.6 Recognizing the need to migrate Frequency List 2 database from Frequency Manager to Frequency Finder, ICAO APAC Office synchronized all registered assignments on Frequency List 2 in the Frequency Manager into Frequency Finder in 2022 and has been using Frequency Finder on frequency assignments for NAV systems.

2.7 During SRWG/7, the Secretariat proposed an interim solution to publish Frequency List 2 (36th edition) by Frequency Finder, which was supported by the meeting. ICAO hosted a Workshop on Frequency Finder at the ICAO Asia and Pacific (APAC) Regional Office on 9-13 October 2023, the workshop supported the migration of Frequency List 2 to Frequency Finder global database (refer to WP07 of SRWG/8).

2.8 The publication of Frequency List 2 (37th edition) will be prepared by Frequency Finder in 2024, after the adoption of the proposed **Draft Conclusion SRWG/8/2** in WP/07 of SRWG/8 by APANPIRG/35, ICAO APAC Regional Office will stop the regular publication of Frequency List 2.

2.9 Frequency Manager is now used only for NDB assignments and the maintenance of Frequency List 1. Unfortunately, the computer for running Frequency Manager failed in January 2024. The publication of Frequency List 1 (38th edition) in 2024 may be delayed.

2.10 In 2023, ICAO APAC Regional Office coordinated 509 Frequency registrations in total, including 408 VHF COM frequencies (List 3), 88 NAV frequencies (List 2), and 11 NDB frequencies (List 1), the most among 7 ICAO regions.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) support the Draft Conclusion SRWG/8/2 in WP/07; and
- c) discuss any relevant matter as appropriate.

¹ In this paper NAV systems or NAV facilities refer to ILS (Localizer and Glide Path), VOR, DME and GBAS/VDB.