

**ICAO***International Civil Aviation Organization***Eight Meeting of the Surveillance Implementation
Coordination Group (SURICG/8)***Bangkok, Thailand: 6 – 9 June 2023***Agenda Item 8:** Update on surveillance activities and explore potential cooperation opportunity

a) States/Administrations

ATC SURVEILLANCE ACTIVITIES UPDATE IN MALAYSIA

(Presented by Malaysia)

SUMMARY

This paper provides information on Air Traffic Surveillance activities in Malaysia. It contains the progress of the on-going and future projects related to ATC Surveillance activities in Kuala Lumpur Flight Information Region (KL-FIR) and Kota Kinabalu Flight Information Region (KK-FIR)

1. INTRODUCTION

1.1 This paper provides information on surveillance activities involved in the current ATMS upgrading projects in KL-FIR and KK-FIR Malaysia.

1.2 The other ATM Surveillance project is the upgrading of KK-FIR which began in the third quarter of 2017 and was completed by the end of 2020.

2. THE KL-FIR SURVEILLANCE PROJECT STATUS

2.1 The upgrading of the ATC surveillance had been completed for the KL ATCC project, consisting of:

- i. Two (2) Terminal Approach Radar (PSR and SSR co-mounted) replacements at Langkawi and Sepang (KLIA 2);
- ii. A new MSSR at Mersing;
- iii. Two (2) new ADS-B sites (dual sensors for each site) at Langkawi and Genting; and
- iv. Surveillance Performance Monitoring System (SPMS) at the KL ATCC, Sepang.

2.2 The entire system (as mentioned above) has been installed and the ATC surveillance data is fully integrated in Multi-Sensor Fusion (MSF) at the KL ATCC.

2.3 This project is currently fully operational starting in September 2021.

3. THE KL-FIR SURVEILLANCE PROJECT STATUS

3.1 The KK-FIR project consists of upgrading air traffic system management together with its air traffic surveillance facilities which are detailed as follows:

- i. Two (2) Terminal Approach Radars (PSR and MSSR co-mounted) replacements at Kuching and Kota Kinabalu.
- ii. A new Terminal Approach Radar (PSR and MSSR co-mounted) installation at Sandakan.
- iii. Four (4) ADS-B sites/sensors at Kota Kinabalu, Sandakan, Kuching, and Sandakan
- iv. SPMS at KK ATCC, Kota Kinabalu, and KC ATCC, Kuching.

3.2 The entire project was completed on 10 December 2021.

3.3 Then the ATC Surveillances data were successfully integrated into Kota Kinabalu ATCC in 2021 together with the integration of existing surveillance data of Sibul, Miri, and Tawau Radar.

4. ON-GOING PROJECT STATUS

4.1 The upgrading of the ATC surveillance project consists of:

- i. Miri TAR (PSR and SSR co-mounted) which is expected to be completed by October 2023
- ii. Subang TAR (PSR and SSR co-mounted) and Genting MSSR (en-route) which are expected to be complete by December 2023 and January 2024 respectively.

4.2 The ATC surveillance projects are Mode S DAPs compliance.

5. ACTION BY THE MEETING

5.1 The objective of the meeting is to:

- a) Note the information contained in this paper; and
- b) Discuss any relevant matter as appropriate.
