



International Civil Aviation Organization

WORKING PAPER

AN-Conf/13-WP/288

1/10/18

(Information Paper)

English only

THIRTEENTH AIR NAVIGATION CONFERENCE

Montréal, Canada, 9 to 19 October 2018

COMMITTEE A

Agenda Item 3: Enhancing the global air navigation system

3.5: Other ATM issues

TRIAL OPERATION OF THE REMOTE AFIS IMPLEMENTATION IN PAPUA - INDONESIA

(Presented by Indonesia)

EXECUTIVE SUMMARY

This paper presents the work programme of Trial Operation Implementation Remote AFIS in Papua - Indonesia. The objectives are to enhance safety and efficiency of flight operation within uncontrolled aerodrome in Papua.

1. INTRODUCTION

1.1 Indonesia implement remote aerodrome flight information service (AFIS) to enhance safety and efficiency of flight operation within uncontrolled aerodrome in Papua.

1.2 Air – ground communication service for some uncontrolled aerodrome will be provided by designated Remote AFIS Centre (RAC) and Flight Service Centre (FSC). One RAC or FSC can serve one or more uncontrolled aerodrome.

1.3 Appropriate communications means, however, is still an issue in most of these areas. In 2016, Indonesia upgrade air – ground communication facilities High Frequency (HF) uses by JAYAPURA and MERAUKE Flight Service Station (FSS) with Spiral cone Antenna. This Antenna installed in MERAUKE.

2. DISCUSSION

2.1 The trial operation implementation of remote AFIS started on 26 April 2018.

2.2 Trial operation of R-AFIS will be applied in some uncontrolled aerodrome within class G airspace with lateral limit is 5 NM from aerodrome reference point and vertical limit is from ground to 4000 feet above ground level in Papua area.

2.3 The implementation of remote AFIS uses the concept of single and multiple remote AFIS Operations. Single AFIS concept served by Jayapura Flight Service Station (FSS) with SENGGEH as remotely AFIS and Biak Flight Service Station (FSS) with SERUI as Remotely AFIS. Multiple AFIS Concept served by Kepi AFIS Centre with SENGGO, Bade and ABOGE as Remotely AFIS and the air – ground communication uses VHF.

2.4 Remote AFIS Centre provided information to aircraft are meteorological information, aerodrome information, hazard information, navigation aids and any other information necessary for aviation safety.

2.5 The challenge in implementation remote AFIS is divided into 2 (two), the first is the limited coverage of VHF on the AFIS Centre and the second not all aircraft flying in G class carried HF radios.

2.6 Most remote areas in Papua have mountainous locations and are limited electrical resources so that the use of VHF with ER is a complicated.

2.7 Indonesia proposed to optimize the use of HF Radio for two – way communication between the Flight Service Centre (FSC) and remotely AFIS.

3. CONCLUSION

3.1 The objective of remote AFIS implementation in Papua is to enhance safety and efficiency of flight operation within uncontrolled aerodrome in Papua.

3.2 The limitation accessed caused by geographical as the location of some airports in the mountainous area and the limitation of electrical resources were the main consideration to implement remote AFIS in Papua.

3.3 The trial operation implementation of remote AFIS started on 26 April 2018.

3.4 Trial operation of R-AFIS will be applied in some uncontrolled aerodrome within class G airspace with lateral limit is 5 NM from aerodrome reference point and vertical limit is from ground to 4000 feet above ground level in Papua Area.

3.5 The implementation of remote AFIS uses the concept of single and multiple remote AFIS operations. Single AFIS concept served by Jayapura Flight Service Station (FSS) with SENGGEH as remotely AFIS and Biak Flight Service Station (FSS) with SERUI as remotely AFIS. Multiple AFIS concept served by Kepi AFIS Centre with SENGGO, Bade and ABOGE as remotely AFIS and the air – ground communication uses VHF.

3.6 The Conference is invited to note the above information and discuss any relevant matter as appropriate.

—————

APPENDIX

REMOTE ATS TRIAL OPERATION IN PAPUA-INDONESIA

NO	AFIS CENTER	AFIS REMOTE	AIR NAVIGATION PERSONEL		METEOROLOGY SERVICE		FACILITIES		RECOMENDATION
			CENTER	REMOTE	CENTER	REMOTE	CENTER	REMOTE	
1	BIAK FSS	SERUI	5	1 UPBU	AVBL	Nil	HF Radio Recording, SSB, Cellular phone	VHF Portable, cellular phone	Preparation of Ground to Ground Coordination facilities with SERUI UPBU, Preparation of LOCA with SERUI UPBU & BMKG, SOP BIAK FSS Amendments by adding Remotely AFIS
2	SENTANI FSS	SENGGEH	8	1 UPBU	AVBL	Nil	HF Radio Recording, SSB, cellular phone	VHF Portable, SSB, cellular phone	Preparation of LOCA JAYAPURA FSS with SENGGEH UPBU & BMKG, SOP JAYAPURA FSS Amendments related to Remotely AFIS
3	KEPI	BADE	4	Nil	Nil	Nil	VHF Portable, SSB, cellular phone	SSB	Preparation of LOCA Kepi AFIS with BADE UPBU & BMKG, Amendment of AFIS Kepi SOP related to Remotely AFIS
		ABOGE		Nil		Nil		SSB	
		SENGGO		Nil		Nil		SSB	

— END —