International Civil Aviation Organization

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

Bangkok, Thailand, 20 – 24 July 2015

Agenda Item 9: Review status of CNS deficiencies

ACTION TAKEN AGAINST CNS DIFFICIENCIES IN MYANMAR

(Presented by Myanmar)

SUMMARY

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

1. INTRODUCTION

1.1 Reports of CNS SG/18 meeting and APANPIRG/25 meetings described about adequate and reliable VHF communication and other CNS deficiencies in Myanmar.

1.2 Myanmar DCA has acknowledged the concerns and has been trying to fulfill its obligations.

2. DISCUSSION

2.1 Currently, Yangon FIR has two sectors, North sector (Sec I) 126.75 MHz with one local and four remote sites (YGN, MIA, LSO, SWE & TCL). For South sector (Sec II) 128.75 MHz with one local and two remote sites (YGN, PTN & MEK).

2.2 In Myanmar, there are currently 7 VSAT RCAG stations. RCAG VHF radio coverage for each site was analyzed by Electro Magnetic Airport Control and Survey (EMACS) system and checked the overlapping area, frequency congested problem and echo noise from receivers in the current two sectors.

2.3 VCCS can support the frequency selection as an individual or group selection. JICA short term experts suggested that in order to avoid the frequency congested problem, ATCs should use the individual selection depending on the aircraft position or use the different frequency for each remote site.

2.4 Myanmar DCA has REPLACED/UPGRADED new VSAT equipments in 5 remote sites to enhance nationwide VHF coverage. Upon successful installations, the following stations have started operation at respective dates shown below.

(a) Yangon YGN (March 2015)
(b) Mandalay MIA (June 2015)
(c) Myeik MEK (June 2015)
(d) Lashio LSO (July 2015)
(e) Sittwe SWE (July 2015)

New RCAG equipments will also be installed at above-mentioned stations in 2015-2016.

2.5 In Pathein PTN, DCA Myanmar will replace new VSAT RCAG system in 2016-17. Current existing VSAT RCAG system was installed in April 2005.

2.6 Myanmar DCA installed VSAT RCAG in Tachileik TCL (March 2015) to extend the VHF coverage for North-East reporting points.

2.7 Myanmar DCA will install the VSAT RCAG System at Coco Islands CCO in 2016-2017 to extend the VHF coverage for Oceanic Area.

2.8 In the future, Myanmar DCA is planning for four sectors;

Sector I: MIA, LSO, SWE & TCL,
Sector II: SWE & PTN,
Sector III: YGN (HGU 100 Nm circle),
Sector IV: PTN, MEK & Coco Island.

According to the plan, SWE and PTN sites should be dual frequencies.

2.9 The attached map shows the VHF coverage in Yangon FIR. The cyan color circles show existing VHF coverage and the pale yellow circle shows the future VHF coverage. (Please see attached figure below)

2.10 The installation of new high power 1 KW HF transceiver (2 units) (Barrett) was completed in March 2013 at Yangon ACC for en-route communication purpose. Another existing 500 W HF transceiver (Thales) will be utilized as backup/standby purpose.

2.11 ATS DSC voice channel between Yangon and Kunming and AFTN data link (AFS) between Yangon and Beijing will be used on E1 fiber of Cross Boarder Link. This E1 landline (2Mbytes circuit) test between Myanmar telecom operator MPT and China Unicom is completed with some bit error on June 2015. Both parties are trying to improve the situation. Next step, Myanmar DCA is looking forward to testing between end users, Myanmar DCA and China CAAC/ATMB.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

a) note the information contained in this paper; and

b) discuss any relevant matters as appropriate.

– – – – – – – – – – – – –

Please see attached figure in the next page.

YANGON FIR - AIR TRAFFIC SERVICES SYSTEM