



INTERNATIONAL CIVIL AVIATION ORGANIZATION

COM CO-ORDINATION MEETING
(People's Republic of China and Pakistan)
7 – 9 May 2015, Beijing, China



Agenda Item 3: Discuss on the remedial options and develop action plan including milestones

**INFORMATION AND CONSIDERATIONS ON SOLUTIONS FOR COMMUNICATION
IMPROVEMENT BETWEEN CHINA AND PAKISTAN**

(Presented by Pakistan)

SUMMARY

This presentation presents required information and considerations on solutions for AFS and AMS communication improvement between China and Pakistan via VSAT technology and implementation plan.

1. INTRODUCTION

1.1 In order to develop a solution to the identified COM deficiencies between China and Pakistan, e-mails coordination with ICAO Regional Office (Mr. Li Peng, Regional Officer, CNS) was exchanged on 2 April 2015 regarding the need for provision of VSAT And VHF equipment to cover the gap of VHF communication coverage around boundary between China and Pakistan and improvement of ATS Direct Speech Communication between Lahore and Urumqi.

2. DISCUSSION

Analysis on grey area of VHF coverage

2.1 The “grey area” of VHF coverage between GILGIT & PURPA on ATS route G235 is around 80 NM and flying time is approx. 8 to 10 minutes. To resolve the VHF communication grey area coverage between reporting fixed points GILGIT and PURPA, the following proposed steps were taken into consideration on the establishment of a new Extended Range VHF station (RCAG).

- a) Tests & trials of VHF coverage were conducted by a team of Technical and Ops. Dte near Ufone installation at Ganish/Girilth, KARIMABAD-Hunza in May 2011. The result of testing was satisfactory as confirmed by Ops. Dte. The proposed site for the RCAG VHF station was at GANISH/GIRILTH, KRIMABAD near PTDC Motel & Ufone installation;

- b) Due to terrain limitations and to get the required coverage results, the RCAG station could not be established at any available site except the proposed site;
- c) EVHF at RCAG frequency presently in use/in operator from EAST sector of Northern FIR and test & trial were conducted on Primary EVHF frequency 127.5 MHz in coordination with area radar control at ACC AIIAP Lahore and the following are the operational frequencies of the said sector:
 - EVHF Primary frequency 127.500 MHz;
 - EVHF Secondary frequency 132.550 MHz;
 - Emergency frequency 121.500 MHz.
- d) To establish new EVHF station, the following equipment/accessories are required:
 - Qty 4 VHF sets with frequencies range from 108.000 MHz to 136 MHz 50 Watt O/P power;
 - 25 KVA generators qty 2 sets in hot standby configuration;
 - 2.5 Meter Dish Antenna (VSAT equipment) with ODU & Indoor VSAT equipment;
 - Antenna Mast Tower (approx. 50 Meter); and
 - Split type air condition units qty. 2 with warm and cold options

2.2 The VHF interface equipment required at ACC AIIAP Lahore is available & installed at site whereas the interface equipment for site ADAPTORKR 412 along with Tone operated Switch GS 400 available and kept at logistics centre SOUTH.

2.3 On 14 April 2015, Headquarter PCAA (DGCAA) issued an instruction to the airport manager CAA Gilgit Airport asking to make necessary coordination with Deputy Commissioner/Land Collector Hunza – Nagar for establishment of the RCAG VHF station at their site. Necessary funds had been allocated for acquisition of land for the establishment of EVHF station at Garelth-Hunza.

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the information provided in this paper; and

3.2 Consider the requirement identified for establishment of new EVHF station to cover the Grey Area gap.
