



International Civil Aviation Organization

**COM CO-ORDINATION MEETING**

*People's Republic of China, Japan, Mongolia and Russian Federation*



Shanghai, People's Republic of China, 18 – 20 October 2011

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**Agenda Item 1: Review of AFS communication requirements in the Sub-region of North Asia, Russian Federation Far East including D - ATS Direct Speech Circuits Plan and CNS 1E - ATS Inter-Facility Data Communication (AIDC) Implementation Plan**

**REVIEW OF ATS DIRECT SPEECH CIRCUIT AND AIDC PLAN**

(Presented by the Secretariat)

**SUMMARY**

This paper reviews the current ATS Direct Speech Circuit and AIDC requirements in the North Asia Sub-region established in the FASID Planning Table for review by the meeting.

**1. INTRODUCTION**

1.1 The current requirements for ATS Direct Speech Circuits are established in the Table CNS 1D issued in early 2006.

1.2 The requirements for ATS Interfacility Data Communication (AIDC) in Asia and Pacific Regions were discussed at the CNS/MET SG/15 meeting held in Bangkok in July 2011 and noted by the APANPIRG/22 then consequentially adopted a Conclusion to amendment Table CNS 1E – AIDC plan.

**2. DISCUSSION**

2.1 RASMAG and APANPIRG meetings expressed concern that coordination errors across FIR boundaries are the most crucial aspect of APAC regional RVSM operations. States have been urged to work together towards implementation of compatible AIDC capabilities based on Asia/Pacific AIDC ICD between ATC units as soon as possible

2.2 The APANPIRG/19 meeting in 2008 was of the opinion that introduction of AIDC between ATS facilities would significantly reduce the coordination errors observed in controller to controller verbal communication across FIR boundaries. The meeting reiterated that States should work towards implementation of compatible AIDC capabilities between neighboring ATS facilities as

soon as possible in accordance with the regional air navigation plan and the available ICAO guidance material on AIDC including the Asia/Pacific AIDC ICD. In view of the foregoing, the meeting adopted the following Conclusion:

**Conclusion 19/19 - Implementation of AIDC in Asia and Pacific Regions**

That, States be urged to expedite implementation of AIDC between neighboring ATS facilities in accordance with the Regional Air Navigation Plan and the Asia/Pacific AIDC ICD

2.3 The issue of transition to ATN/AMHS based AIDC was taken up for discussion by ATNICG in its meetings. The ATNICG agreed that ATN implementation will be able to support AFTN based AIDC, which is currently in use.

2.4 Subject to availability of AIDC between ATM facilities of the neighbouring ACCs between States, the ATS Direct Speech Circuits play very important role for ATS traffic handling over and transfer coordination. It may be still required for contingency and emergency requirements between ACCs of neighbouring FIRs even if AIDC has been implemented.

2.5 Currently, the following three categories of performance requirements for ATS Direct Speech Circuits are specified in the FASID Table CNS 1D.

A — indicates ATS requirement for the establishment of voice communication within 15 seconds.

D — indicates requirements for instantaneous communications

X — indicates that the circuit is required for network operation.

2.6 The current requirements for ATS Direct Speech Circuits for the area of interest to this meeting as specified in the FASID TABLE CNS 1D are highlighted below for review by this meeting:

- 1) Beijing ACC/Ulaanbaatar (Implemented via LTF)
- 2) Hailar ACC/Chita
- 3) Harbin ACC/Khabarovsk (Implemented via LTF)
- 4) Harbin ACC/Vladivostok
- 5) Hohhot ACC/Ulaanbaatar
- 6) Lanzhou ACC/Ulaanbaatar
- 7) Shanghai ACC/Fukuoka
- 8) Shanghai ACC/Naha ACC (Required)
- 9) Shenyang/Vladivostok
- 10) Urumqi ACC/Ulaanbaatar
- 11) Taipei/Naha ACC;
- 12) Sapporo ACC/Khabarovsk (ACC)
- 13) Sapporo ACC/Vladivostok (ACC)
- 14) Sapporo ACC/Yuzhno (ACC)
- 15) Sapporo ACC/Sakhalinsk (ACC)
- 16) Ulaanbaatar ACC/Irkutsk (ACC)
- 17) Ulaanbaatar ACC/Kyzyl (ACC)

2.7 The operational requirements for AIDC and their planning and implementation status for the area of interest to this meeting are contained in FASID Table CNS-1E. It was proposed to establish a requirement of Shanghai/Fukuoka AIDC Circuit in addition to the ATS Direct Speech Circuit required as specified in the Table CNS 1D. Administrations are encouraged to coordinate each other for implementation of following AIDC circuit and develop requirements and implementation plan for other circuits between States concerned.

Fukuoka/Taipei with target date for implementation in 2012.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to review the requirements for implantation ATS Direct Speech Circuits between States as specified in the Table CNS 1D and the AIDC planning and implementation requirements as contained in or to be reflected in the TABLE CNS 1E.

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