International Civil Aviation Organization

MIDANPIRG Communication Navigation and Surveillance Sub-Group (CNS SG)

Sixth Meeting
(Tehran, Iran, 9 – 11 September 2014)

Agenda Item 5: Performance Framework for CNS Implementation in the MID Region

AMHS ROUTING FROM MID TO EUR REGIONS

(Presented by Secretariat)

SUMMARY

This working paper proposes that AMHS communication paths be implemented in a feasible way between Jeddah, Bahrain and Vienna in preparation for the exchange of OPMET data in digital form.

Action by the meeting is at paragraph 3.

1. INTRODUCTION

1.1 The Fifth meeting of the Meteorology Sub-Group (MET SG/5) of the MIDANPIRG was held in Jeddah, Saudi Arabia from 2 to 4 September 2014. The MET SG/5 meeting reviewed the outcomes of the MID Regional OPMET Centre (ROC) Implementation Workshop held in Jeddah, Saudi Arabia from 31 August 2014 to 1 September 2014. The outcomes of this Workshop were related to implementing a ROC that included information on communications.

2. DISCUSSION

2.1 The MET SG/5 meeting reviewed the Aeronautical Fixed Service (AFS) communication requirements for the exchange of OPMET information between two Regions.

2.2 The current AFTN/CIDIN communication paths from Jeddah (primary ROC) and Bahrain (planned backup ROC) to Vienna support the OPMET exchange in Traditional Alphanumeric Code (TAC) format.

2.3 However, the communication paths are limited to 9.6 kbs bandwidth and exclude an Aeronautical Message Handling System (AMHS) path. XML coded OPMET data cannot be transported by AFTN/CIDIN. Currently, no AMHS communication path exists between the two Regions. Given the fact that the data volume would increase between 25 (compressed) and 100 (uncompressed) times from TAC to digital form, the Workshop noted that a bandwidth of 150 kbs to 600 kbs would be needed for exchanging OPMET data in digital form.

2.4 The exchange of OPMET data in digital form for METAR/SPECI, TAF and SIGMET will be recommended in 2016 and required in 2019 as per Annex 3. As a result, the Workshop agreed that AMHS communication paths should be implemented in a feasible way between Jeddah, Bahrain and Vienna in preparation for the exchange of OPMET data in digital form. As a result, the MET SG/5 agreed on the following Draft Conclusion.

DRAFT CONCLUSION 5/3: AMHS ROUTING FROM MID TO EUR REGIONS

That, the MIDANPIRG CNS Sub-group be invited to consider developing a plan to implement AMHS communication paths between Jeddah, Bahrain and Vienna to enable the exchange of OPMET data in digital form between MID and EUR Regions.

Note: Coordination between the MIDANPIRG CNS Sub-group and EANPG AFSG should be performed as deemed necessary.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

a) note the information in this working paper;

b) consider the proposed Draft Conclusion by the MET SG/5 of MIDANPIRG; and

c) communicate any developments associated with the Draft Conclusion with the EANPG AFSG.

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