



International Civil Aviation Organization

THE SIXTH MEETING OF IONOSPHERIC STUDIES TASK FORCE (ISTF/6)

Bangkok, Thailand, 19 – 21 January 2016

Agenda Item 5: Work plan and next meetings toward completion of tasks, and assessment of possibility to disband the Task Force

ISTF WORKPLAN FOR FINAL REPORT TO CNS-SG AND APANPIRG

(Presented by Chairman of ISTF)

SUMMARY

This paper presents the working plan of the ISTF for final report to the CNS subgroup in July 2016 and APANPIRG in September 2016.

1. INTRODUCTION

1.1 At the 19th meeting of the APANPIRG CNS subgroup (CNS/19) agreed on the working plan of ISTF to report to the 20th meeting of APANPIRG CNS subgroup meeting (CNS/20), and to the 27th meeting of APANPIRG (APANPIRG/27) in 2016.

1.2 After the CNS/19, ISTF has been working on the data analysis and development of guidance materials on SBAS safety case for ionospheric threat and GBAS ionospheric threat mitigation.

1.3 CNS/20 and APANPIRG/27 will be held in July and September, 2016, respectively.

1.4 This paper discusses on the remaining issues and working plan for report to CNS/20 and APANPIRG/27.

2. DISCUSSION

2.1 Currently, the data analysis are going on by sharing the efforts by Australia, India, Japan, and Republic of Korea. The long-term ionospheric anomaly monitoring tool (LTIAM) has successfully obtained from FAA and initial analysis has already started. However, the total time necessary to analyze data enough to establish the threat model has not been clear yet.

2.2 The guidance materials for the SBAS safety case for the ionospheric threat and GBAS ionospheric threat mitigation have been started drafting. Strawman drafts of the materials are available for this ISTF/6 meeting. Thus, there would be enough time for those materials finalized before CNS/20.

2.3 Therefore, the critical path for the ISTF report to CNS/20 and APANPIRG/27 is the data analysis and development of the ionospheric threat model for GBAS.

2.4 Considering that the GBAS implementation plans are already going on in the APAC region (such as Chennai in India and others) and that the original target date of ISTF was CNS/19 in 2015, further delay of the target date of the report would not be accepted.

2.5 Therefore, the following working plan is proposed:

Event	Tentative Date	Actions
ISTF Webconference #9	March 2016	follow up on analysis and models
ISTF Webconference #10	May 2016	follow up on analysis and models
ISTF Webconference #11	July 2016	follow up on analysis and models, update CNS SG/20
ISTF Webconference #12	End August 2016	follow up on analysis and models, review technical draft publication, update APANPIRG/27 Submit a paper in a technical journal
August 2016-December 2016		peer-reviewing process and publication in technical journals

2.6 More efforts and optimizing analyzing data are necessary. Now that the LTIAM tool has already been used in four different parties, exchange of experience would accelerate the efficiency of analysis. Furthermore, more parties are invited to take part in the analysis, because now it would be easier for them to take part in data analysis utilizing the experience gained by the four pilot parties.

3. ACTION REQUIRED BY THE MEETING

3.1 The meeting is invited to do the following:

- a) review the working plan presented in this paper for acceptance;
- b) make any necessary amendments to the plan; and
- c) discuss any relevant issues as appropriate.
