

INTERNATIONAL CIVIL AVIATION ORGANIZATION

**RLA/00/009 PROJECT SECOND COORDINATION MEETING ON GNSS AUGMENTATION
TRIALS**

(Río de Janeiro, Brazil, 28 to 30 August 2002)

Agenda Item 2: Review of the First Coordination Meeting

(Presented by the Secretariat)

Summary

This working paper presents information related with the results of the RLA/00/009 First Coordination Meeting on GNSS Augmentation Trials.

Reference:

Report of the RLA/00/009 Project Coordination Meeting on GNSS Augmentation Trials.

1. Background

1.1 The following matters were analyzed during the RLA/00/009 First Coordination Meeting on GNSS Augmentation Trials, held in Santiago, Chile from 1 to 3 August 2001:

- a) Analysis of the system for the GNSS augmentation trials, reference stations, master stations, avionics equipment and network configuration
- b) Analysis of the activities contemplated in the GNSS Regional Augmentation Project
- c) Schedule of activities to be carried out
- d) Other matters

2. Analysis of the system for the GNSS augmentation trials, reference stations, master stations, avionics equipment and network configuration

2.1 This Agenda item analyzed and approved the configuration of the platform that would support the GNSS augmentation trials. For the configuration, the geographical site were the reference stations, master stations and ground satellite station were defined. Likewise, definitions were also made regarding the physical characteristics of the communications circuits necessary for the interconnection of the platform elements (TRS, TMS and Ground Satellite Station).

2.2 In addition, the names of the counterpart coordinators at each of the Project participating States were informed, indicating data such as telephones, fax and e-mail address.

3. **Analysis of the activities contemplated in the GNSS Regional Augmentation Project**

3.1 Under this Agenda item, the types of trials specified in the project document were examined and approved, emphasizing on the main activities, which would consist in the collection of GPS signal data on board the aircraft and at the reference stations to verify the behaviour of the ionosphere with said signals and how this affects its precision, availability, continuity and integrity.

3.2 Moreover, it was considered that, due to the non availability of the ground satellite station, the augmentation trials would be made through VHF transmissions in the aeronautical band.

3.3 It was considered that, to be able to verify the availability and precision parameters of the augmentation signals for the project's trial platform for enroute navigation operations, as well as non precision approaches, it would be necessary to update Appendix H of the project document, related with the volumes of service.

3.4 The meeting was made aware of the activities to be carried out by Brazil and, in this respect, presented a GANTT diagramme.

4. **Schedule of activities to be carried out**

4.1 Under this item, the meeting was presented with a schedule of activities to execute the project. This basically includes the installation of the reference stations, training and execution of national and regional trials.

4.2 Likewise, two conclusions were formulated: Conclusion 3/1 - Execution of flight trials in Argentina, Bolivia and Peru and Conclusion 3/2 - State contributions to RLA/00/009 Project. These conclusions, whose contents are in **Appendix A** to this paper, are to be considered as concluded and pending, respectively.

5. **Other matter**

5.1 Within this item, the importance of the use of electronic mail for the exchange of information among the members of the Group of Coordination was dealt with.

5.2 In addition, consideration was given to the incorporation of Colombia to the Technical Committee of the Task Force on Navigation.

6. **Action suggested**

6.1 The Meeting is invited to take note of the contents in this working paper, for the corresponding analysis.

APPENDIX A

STATUS OF CONCLUSIONS FORMULATED DURING THE RLA/00/009 PROJECT COORDINATION MEETING ON GNSS AUGMENTATION TRIALS

CONC. NUMBER	TITLE	CONTENTS	STATUS	REMARKS
3/1	Execution of flight trials in Argentina, Bolivia and Peru	<p>That:</p> <p>a) Argentina Bolivia and Peru carry out all the activities indicated in the verification list presented as Appendix B to this part of the report, to guarantee the execution of the flight trials planned for the period between 15 November and 15 December 2001; and</p> <p>b) Chile carry out the scheduling of the trial at the indicated date for its remittance to the project administration and States involved.</p>	<i>Concluded</i>	Data collection flight trials were carried out in Argentina, Bolivia and Peru.
3/2	State contributions to RLA/00/009 Project	That States involved in RLA/00/009 Project that have still not deposited their corresponding contributions, should do so as soon as possible and before 31 August 2001, so as not to affect the activities of the project.	<i>Pending</i>	