

**INTERNATIONAL CIVIL AVIATION ORGANIZATION**

**THIRD RLA/00/009 PROJECT COORDINATION MEETING**

(Rio de Janeiro, Brazil, 15 to 17 October 2003)

**Agenda Item 1: Review of the Second Coordination Meeting**

(Presented by the Secretariat)

<b>Summary</b>
This working paper presents information regarding the results of the second RLA/00/009 project coordination meeting, for the review of the meeting.
<b>Reference:</b>
Reports of the first and second RLA/00/009 project coordination meetings.

**1. Background**

1.1 During the second RLA/00/009 project coordination meeting, held in Rio de Janeiro, Brazil, from 28 to 30 August 2002, the following subjects were analyzed:

- a) Agenda approval;
- b) Review of the first coordination meeting;
- c) Report on activities carried out to date in the execution of the project;
- d) Revision of activities scheduled in the project document and their reformulation;
- e) Financial situation of the project; and
- f) Other matters.

**2. Agenda approval**

2.1 Under this item, an analysis was made to the proposed agenda, with its further approval. Nine working papers and one information paper were presented in support of the agenda items.

### 3. **Review of the first coordination meeting**

3.1 The meeting examined the matters in the report of the first RLA/00/009 project coordination meeting, Santiago, Chile, 1 to 3 August 2002. In this regard, emphasis was made that there were still pending matters, such as the updating of Appendix H to the document project, related with the volume of service, specifically the availability and accuracy parameters for non precision approaches. The levels of availability and accuracy of operations services with vertical guidance would be carried out once the ionosphere studies were completed.

3.2 In addition, information was provided on the status of the project regarding pending contributions.

### 4. **Report on activities carried out to date in the execution of the project**

4.1 Under this item, the meeting took note of the activities carried out during the project's first year regarding the execution of regional GNSS augmentation trials. These were divided into three parts: the first, corresponding to the installation of the TRS reference stations; the second, the execution of the training programme; and third, the initial trials.

4.2 Moreover, project participating States had the opportunity to evaluate, through a grading system, the activities of the project's first year.

### 5. **Revision of activities scheduled in the project document and their reformulation**

5.1 Two conclusions were formulated, Conclusion 2/1 - *Recording and analysis of data obtained by the reference stations*, and Conclusion 2/2 - *Extension of trials under RLA/00/009 project* (see the **Appendix** to this working paper).

5.2 Conclusion 2/1 was formulated to be able to record GPS data from the TRS stations for the period between October 2002 and March 2003 when the higher ionospheric activity was expected.

5.3 Conclusion 2/2 was formulated with the objective of extending RLA/00/009 project activities to include ionosphere studies for application in GNSS augmentation trials for NPA procedures and vertical guidance approach.

### 6. **Financial situation of the project**

6.1 The meeting, under this item, took note of the financial situation of the project and, on this basis, formulated Conclusion 2/3 - *States contributions to the RLA/00/09 project* (see the Appendix to this working paper), which urged States to make effective pending contributions before the end of 2002.

### 7. **Other matters**

7.1 Under this agenda item, views were exchanged regarding the date for the holding of the third project coordination meeting.

8. **Action suggested**

8.1 The meeting is invited to:

- a) Take note of the contents of the working paper for corresponding analysis; and
- b) Analyze the status of the conclusions in the Appendix to this working paper.

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## APPENDIX

## STATUS OF CONCLUSIONS FORMULATED DURING THE SECOND RLA/00/009 PROJECT COORDINATION MEETING

CONCLUSION	TITLE	CONTENT	STATUS	REMARKS
2/1	Recording and analysis of data obtained by the reference stations	<p>That, with the aim of guaranteeing the collection and analysis of the data obtained by the reference stations, consideration be given to the following:</p> <p>a) a group of States conformed by Brazil, Colombia and United States will analyse the data obtained by the TRS of the CSTB, and will produce and deliver quarterly reports, starting on October 2002, to the States participating in the project, to obtain information on the result of the trials; and</p> <p>b) the Secretariat will present and deliver to the States participants in the project, a detailed procedure of execution of TRS data acquisition by 1 October 1 2002.</p>	<i>Pending</i>	<p>Data was collected from each of the reference stations. In Bolivia and COCESNA, the information was recorded in CDs. These were sent to the FAA (United States) and to Colombia for their analysis.</p> <p>The Chile, Peru and Argentina stations sent the GPS data direct to the FAA in Atlantic city through a direct communications means established for this purpose. Colombia recorded the GPS data in its web page, with a weekly updating of the information, and also analyzed the information recorded. Brazil recorded and analysed its own data.</p>

CONCLUSION	TITLE	CONTENT	STATUS	REMARKS
2/2	Extension of trials under RLA/00/009 project	<p>That:</p> <p>a) the project, recognizing the need to carry out studies to perform a ionosphere study to develop the corresponding suitable modeling of the same for the CAR/SAM regions aimed at implementing trials for air operations requiring vertical guidance, request to Brazil to document and present to ICAO not later than 6 September 2002, a detailed proposal on this matter indicating scope of the activities, resources and other pertinent matters related with the activities sharing among the project parties; and</p> <p>b) ICAO in considering the Brazilian proposal in coordination with the other project parties, determine the most adequate course of action to study the feasibility to implement this new activity as part of the RLA/00/009 project schedule.</p>	<i>Pending</i>	Awaiting ionosphere studies for NPA procedures. It is expected that the third coordination meeting produce results in this respect.
2/3	States contributions to the RLA/00/09 project	In order to proceed with the activities of the Project, the States with pending contributions should make all the necessary efforts to make effective the corresponding deposits before the end of 2002.	<i>Valid</i>	See RLA/00/09-GNSS/A/3-WP/4.