

International Civil Aviation Organization
UNDP/ICAO Regional Project RLA/98/003
Transition to the CNS/ATM Systems in the CAR and SAM Regions

Second Meeting/workshop of Air Traffic Management (ATM) Authorities and Planners
(Lima, Peru, 14 to 18 May 2001)

Agenda, Schedule and Working Methods

(Presented by the Secretariat)

1. **Agenda**

- 1.1 The Agenda of previously coordinated items for discussions at the meeting/workshop, sent to the States, together with the convening letter, is attached as **Appendix A** to this working paper.
- 1.2 Those matters not considered in the Agenda, might be dealt with under Agenda item 7, other matters.

2. **Working methods**

- 2.1 For the development of the matters to be dealt with, it is expected to work as a single committee, establishing ad-hoc committees for the temporary/definitive implementation of the RNAV routes UT780, UT795 and UT799. It is also expected that the meeting revise the possibility that in other phases of trials and demonstrations, trials for CNS elements be included, as well as inclusion of RNP values and other related ATM elements. During the second part, specific matters on the implementation of RNAV routes Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York and Sao Paulo-Rio de Janeiro/Los Angeles will be dealt with.
- 2.2 During the course of the Meeting, a Summary of Discussions and Conclusions will be prepared and issued to interested States and international organizations.
- 2.3 The administrative aspects and those for document processing for the Meeting will be in charge of the ICAO SAM Regional Office personnel.

3. **Work Schedule**

- 3.1 Subject to the circumstances that would affect the adoption of the work, the following work schedule is suggested:

09.00 - 10.30	Review of agenda items
10.30 - 10.45	Coffee Break
10.45 - 12.30	Review of agenda items
12.30 - 13.00	Coffee Break
13.00 - 14.30	Review of agenda items

4. **Work Plan**

4.1 Appendix **B** to this working paper includes the tentative work plan.

4.2 The approval of the mentioned tentative work plan is suggested, provided that in the light of the progress reached, the Meeting might adopt the modifications, when deemed advisable.

5. **General Information**

5.1 General information of the meeting is shown as **Appendix C**.

Appendix A

TENTATIVE AGENDA

Tentative Agenda and Explanation of the Agenda Items of the Second Meeting/Workshop of Air Traffic Management (ATM) Authorities and Planners

(Lima, Peru, 14 to 18 May 2001)

Agenda Item 1: Evaluation of the pre-operational trials and demonstrations in the RNAV routes UT 780 (Santiago- Lima/Miami), UT 795 and UT 799 (Sao Paulo-Rio de Janeiro/Miami).

In this agenda item, the meeting will evaluate the conclusions of the pre-operational trials and demonstrations in concerned RNAV routes, through the information provided by States and users.

Agenda Item 2: Definitive implementation of the RNAV routes UT 780, UT 795 and UT 799 and analysis of new pre-operational trials and demonstrations in such routes.

Taking into account the evaluation of the conclusions of agenda item 1, the meeting will define the convenience or not of the definitive implementation of the routes as well as the amendment to the Table of ATS Routes Network included in the CAR/SAM Air Navigation Plan. On the other hand, the meeting could review the possibility of extending the trials and demonstrations in these routes to other ATM aspects such as implementation of other ATM improvements and establish a work programme in this respect.

Agenda Item 3: Analysis of pre-operational trials and demonstrations in new RNAV routes between Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York and Sao Paulo-Rio de Janeiro/Los Angeles and evaluation of other paths.

In the framework of the programme scheduled by the GREPECAS CNS/ATM/IC and ATS Subgroups and as part of the programme approved by the Coordination Committee of the RLA/98/003 Regional Project to carry out trials of RNAV routes within the CAR/SAM regions, the meeting could review the convenience of initiating new pre-operational trials and demonstrations in the Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York and Sao Paulo-Rio de Janeiro/Los Angeles flows, as well as, if pertinent, evaluate other paths to be implemented.

Agenda Item 4: Requirements, which should be fulfilled for the trials and demonstrations in the RNAV routes between Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York y Sao Paulo-Rio de Janeiro/Los Angeles.

In this agenda item, the meeting will evaluate the requirements which should be fulfilled for pre-operational trials and demonstrations in the referred routes, such as aircraft equipment, minimum utilization levels in each route, application of the 10 minute longitudinal separation ensured by the utilization of the Mach number technique (MNT) and/or 80 NM RNAV between aircraft at the same level, status of coordinations between ACCs involved, ATC procedures, civil/military coordination, training, supervision of the implementation and other related issues.

Agenda Item 5: Review of the operational letters of agreement (LOA) between the ACCs involved.

Taking into consideration the possible application of new pre-operational trials and demonstrations, the meeting should review the impact that such implementation would have in the actual operational letters of agreement between the ACCs involved and adopt the necessary amendments.

Agenda Item 6: Review of the implementation programme of pre-operational trials and demonstrations of RNAV routes.

The meeting will review the implementation programme of pre-operational trials and demonstrations of the new RNAV routes, where the activities to be carried out by every party involved (States, users, IATA and ICAO) are described. Likewise, the dates on which such activities should be finalized will be reviewed, with a view to achieve a successful implementation of pre-operational trials and demonstrations of the routes concerned.

Agenda Item 7: Other matters.

In this agenda item other aspects, which have not been considered in previous items and related to the matter under analysis, could be reviewed.

Appendix B

Monday, 14 May 2001

08.30 - 09.30	Registration of participants
09.30 - 09.45	Opening of the meeting Election of president and Vice-president
09.45 - 10.00	Coffee break
10.00 - 12.30	Revision of Agenda Item 1
12.30 - 13.00	Coffee break
13.00 - 14.30	Revision of Agenda Item 2

Tuesday, 15 May 2001

09.00 - 10.30	Continue with Revision of Agenda Item 3
10.30 - 10.45	Coffee break
10.45 - 12.30	Revision of Agenda Item 3
12.30 - 13.00	Coffee break
13.00 - 14.30	Revision of Agenda Item 4

Wednesday, 16 May 2001

09.00 - 10.30	Revision of Agenda Item 5
10.30 - 10.45	Coffee break
10.45 - 12.30	Meeting with Ad Hoc Committees 1, 2 and 3 for the revision of implementation of RNAV temporary routes Buenos Aires/Miami, Sao Paulo-Río de Janeiro/Nueva York and Sao Paulo-Río de Janeiro/Los Angeles. Revision of agenda items 3, 4 and 5.
12.30 - 13.00	Coffee break
13.00 - 14.30	Meeting with Ad Hoc Committees 1, 2 and 3 for the revision of implementation of RNAV temporary routes Buenos Aires/Miami, Sao Paulo-Río de Janeiro/Nueva York and Sao Paulo-Río de Janeiro/Los Angeles. Revision of agenda items 3, 4 and 5.

Thursday, 17 May 2001

09.00 - 10.30	Meeting of Ad Hoc Committees 1, 2 and 3 for revision of implementation of RNAV temporary routes Buenos Aires/Miami, Sao Paulo-Río de Janeiro/Nueva York and Sao Paulo-Río de Janeiro/Los Angeles. Revision of agenda items 3, 4 and 5.
10.30 - 10.45	Coffee break
10.45 - 12.30	Revision of Agenda Item 6
12.30 - 13.00	Coffee break
13.00 - 14.30	Revision of Agenda Item 7

Friday, 18 May 2001

09.30 - 10.30	Delivery of Summary of Discussions and Conclusions for analysis by the participants
10.30 - 10.45	Coffee break
10.45 - 12.30	Approval of Summary of Discussions and Conclusions
12.30 - 13.00	Closing

**International Civil Aviation Organization
UNPD/ICAO Regional Project RLA/98/003
Transition to the CNS/ATM Systems in the CAR and SAM Regions**

**Description of the
Meeting/workshop of Air Traffic Management (ATM) Authorities and Planners**

(Lima, Peru, 14 to 18 May 2001)

ICAO NOMENCLATURE: N° 056 ATC PLN

1. INTRODUCTION

- 1.1 As part of the programme of activities approved by the Coordination Committee of the RLA/98/003 Regional Project for 2001, a second meeting/workshop of air traffic management (ATM) authorities and planners has been foreseen to be held at the ICAO South American Regional Office in Lima.

2. OBJETIVE

- 2.1 Evaluate the pre-operational trials and demonstrations in the routes under study (Santiago-Lima/Miami y Sao Paulo-Rio de Janeiro/Miami) and plan the implementation of new pre-operational trials and demonstrations for the utilization of RNAV routes in the CAR and SAM Regions, as foreseen by the GREPECAS CNS/ATM/IC and ATS Subgroups (Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York and Sao Paulo-Rio de Janeiro/Los Angeles) carrying out the pertinent coordinations and agreements with the adjacent States for the implementation of pre-operational RNAV routes. Notwithstanding the above, the meeting will review the possibility of implementing other paths that could be considered necessary at the States' and users criteria.

3. CONTENTS

- 3.1 Tentative agenda of the meeting (see attached explanation):

Agenda Item 1: Evaluation of the pre-operational trials and demonstrations in the RNAV routes UT 780 (Santiago- Lima/Miami), UT 795 and UT 799 (Sao Paulo-Rio de Janeiro/Miami).

Agenda Item 2: Definitive implementation of the RNAV routes UT 780, UT 795 and UT 799 and analysis of new pre-operational trials and demonstrations in such routes.

- Agenda Item 3: Analysis of pre-operational trials and demonstrations in new RNAV routes between Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York and Sao Paulo-Rio de Janeiro/Los Angeles and evaluation of other paths.
- Agenda Item 4: Requirements which should be fulfilled for the trials and demonstrations in the RNAV routes between Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York y Sao Paulo-Rio de Janeiro/Los Angeles.
- Agenda Item 5: Review of the operational letters of agreement (LOA) between the ACC involved.
- Agenda Item 6: Review of the implementation programme of the pre-operational trials and demonstrations of RNAV routes.
- Agenda Item 7: Other matters.

3.2 Workshop Agenda:

- a) Review of the impact that the implementation of the RNAV routes would have in the airspace structure under the responsibility of each administration involved in the routes under study.
- b) Requirements that should be fulfilled for the pre-operational trials and demonstrations in the referred routes:
 - aircraft using these routes should be equipped with RNAV,
 - minimum utilization level in each route,
 - a ten-minute and/or 80 NM RNAV longitudinal separation minima will be used between aircraft at the same level, ensured by the utilization of the Mach number technique (MNT).
- c) Review of aspects such as:
 - minimum requirements for the application of the longitudinal separation,
 - status of coordinations between ACCs involved,
 - ATC procedures,
 - civil/military coordination,
 - training,
 - assess of results (operational follow-up),
 - supervision of the implementation,
 - other related issues.

4. **DOCUMENTATION**

4.1 The documents required for the meeting/workshop are the following:

- a) Doc 8733 Air Navigation Plan – Caribbean and South American Regions
- b) Doc 9613 Manual on required navigation performance (RNP)
- c) Doc 9689 Manual on airspace planning methodology for the determination of separation minima
- d) Bilateral operational letters of agreement.

5. **PLACE, DATES AND SCHEDULE**

5.1 The meeting/workshop will be held at the ICAO South American Regional Office, in Lima, Peru, from 14 to 18 May 2001, from 08:00 to 14:00 hours.

6. **TEMPERATURE**

6.1 Temperature in Lima during the month of May usually varies between 18° and 26° C.

7. **LANGUAGES**

7.1 The event will be developed in Spanish and English, with simultaneous interpretation service.

8. **WHO SHOULD ATTEND**

8.1 Participants should be air traffic management (ATM) authorities and planners of the civil aviation administrations of the CAR and SAM regions involved in the management of the routes under study (UT780, UT795 and UT799 and new routes proposed for pre-operational trials and demonstrations) and users who have been operating in RNAV routes and with RNAV capacity to fly the new pre-operational RNAV routes under consideration (Buenos Aires/Miami, Sao Paulo-Rio de Janeiro/New York and Sao Paulo-Rio de Janeiro/Los Angeles).

8.2 Participants of administrations involved should count with experience in ATM planning (airspace structure planning), as well as with sufficient authority to carry out the necessary coordinations and to sign, if it is the case, the pertinent operational agreements with adjacent States for the implementation of RNAV routes.

8.3 It is desirable that ATM authorities and planners of the other CAR/SAM States not involved in the management of the routes under study also participate in this meeting/workshop, in order to be familiarized with the process and interchange experiences in this respect.

9. REGISTRATION, LOCAL TRANSPORTATION AND ACCOMMODATION

9.1 Registration and hotel bookings will be made by the ICAO Regional Office concerned to the area of accreditation of the requesting State or organism upon receiving their request through the submission, as soon as possible and in any event not later than 20 April 2001, of the personal data of each participant or, if it is the case, their duly completed ICAO fellowship nomination forms.

9.2 Upon arriving at the Lima/Callao "Jorge Chavez" International Airport, participants should utilize the airport official taxi service for transportation to their place of accommodation. Transportation to and from hotel to the ICAO South American Regional Office will be provided during the event. On Monday 14 May, transportation will be leaving from Hostal Ejecutivo at 07:00 hours and will pass along Hostal El Doral at 07:10 hours.

9.3 Suggested hotels and rates, including taxes and breakfast, are the following:

Hotel	Address/Telephone/Fax	SWB US\$	DWB US\$
Grand Hotel Miraflores*****	Av. 28 de Julio 151, Miraflores Tel. (511) 241-4647, Fax (511) 446-5518	50.00	55.00
Hostal El Doral****	Av. José Pardo 486, Miraflores Tel. (511) 242-7799, Fax (511) 446-8344	49.00	54.00
Hostal Ejecutivo***	Av. 28 de Julio 245, Miraflores Tel. (511) 2413575, Fax (511) 444-6189	30.00	40.00

10. REFERENCE

10.1 ICAO South American Regional Office
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