



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

**Sixth Meeting/workshop of Air Traffic Management (ATM) Authorities and
Planners for RVSM, RNAV routes and RNP implementation in the CAR and SAM Regions**

(San José, Costa Rica, 29 September-3 October 2003)

Agenda Item 1: Review of the RNAV routes Implementation Programme

**Deletion and re-alignment of AWY UR/ R 560 JUJUY VOR –
LAS LOMITAS VOR – ASUNCION VOR**

(Presented by Argentina)

Summary

This working paper proposes the Meeting to analyze the possibility to delete AWY UR/R 560 in the segment **JUJUY VOR/DME – LAS LOMITAS VOR – ASUNCION VOR/DME**, implement an **RNAV** between **JUJUY VOR/DME** and **ASUNCION VOR/DME**.

References:

- Analysis of the Regional Project UNDP/ICAO RLA/98/003, to air traffic flows.
- ICAO Doc 9750 AN/963 – Global Air Navigation Plan for ICAO CNS/ATM Systems.
- Air Navigation National Plan
- Doc 8733 – Air Navigation Plan CAR/SAM/3 RAN Meeting
- Conclusions of the Fourth Meeting of the Project RLA/98/003, Lima, Peru, December 2001
- Conclusions of the Fifth Meeting/Workshop of ATM Authorities and Planners of the CAR/SAM Regions for RVSM Implementation, RNAV ROUTES and RNP (AP/ATM/4 RVSM-RNAV-RNP)
- Decisions of the ATM/CNS/SG/2 Meeting

1. Introduction

1.1 During the AP/ATM/5 Meeting held in Panama City, in June 2003, the proposal presented by the Argentinean Administration was accepted to delete AWY UA301 in the segment comprised between **VIRU-VIRU** and **MORENO VOR/DME**.

1.2 LAS LOMITAS VOR is a support for air navigation in AWY UA301 and AWY UR/R 560, which is comprised between **ASUNCION VOR/DME** (PARAGUAY) – **JUJUY VOR/DME** (ARGENTINA) and **CALAMA VOR/DME** (CHILE).

1.3 The Argentinean Administration has planned to re-locate and install rationally radio navigation aids for a more efficient coverage of the current air routes network.

1.4 The utilization of the Global Positioning System (GPS) is approved in the Argentinean airspace as a primary not only means of air navigation in RNAV routes.

2 Analysis

2.1 Taking into consideration the deletion of route UA 301, **LAS LOMITAS VOR** only air traffic of UR/4 560 would serve as support to air navigation, which registers a minimum air traffic density.

2.2 The re-location of **LAS LOMITAS VOR** in other airway with greater amount of movements would enable a more efficient utilization of the existing radio navigation aids in the Argentinean national territory.

2.3 The inclusion of a RNAV route in replacement of AWY UR/R 560 would enable to maintain the existence of an air route between ASUNCION, ARGENTINA NORTHEN PART and CHILE NORHTEN PART, attending the regional scenario.

2.4 The points of the RNAV proposed between **JUJUY VOR/DME** and **ASUNCION VOR/DME** have the following coordinates and airspaces affected:

FIR and/or SIGNIFICANT POINTS	LATITUDE	LONGITUDE	CODE NAME
JUJUY VOR/DME	242337 S	06500534 W	To be confirmed
FIR CÓRDOBA-RESISTENCIA	244927 S	0615515 W	To be confirmed
FIR RESISTENCIA-ASUNCIÓN	251140 S	0580939 W	To be confirmed
ASUNCIÓN VOR/DME	251436 S	0573116 W	To be confirmed

3. Suggested action

3.1 The meeting is invited to consider:

- a) The deletion of AWY UR/R 560 segment **ASUNCION VOR-LAS LOMITAS VOR-JUJUY VOR**
- b) The implementation of a RNAV between **ASUNCION VOR** direct **JUJUY VOR/DME-CALAMA VOR**; and
- c) Assign double designator RNAV/UR 560 further segment between **JUJUY VOR-CALAMA VOR**.