

Twenty Eighth Meeting of the Informal South Pacific ATS Co-ordinating Group (ISPACG/28)

Papeete, Tahiti 5-7 March 2014

Agenda Item 5.1 Seamless Airspace

PBN in French Polynesia

Presented by SEAC PF

SUMMARY

This paper provides a general review of progress of PBN activities in French Polynesia.

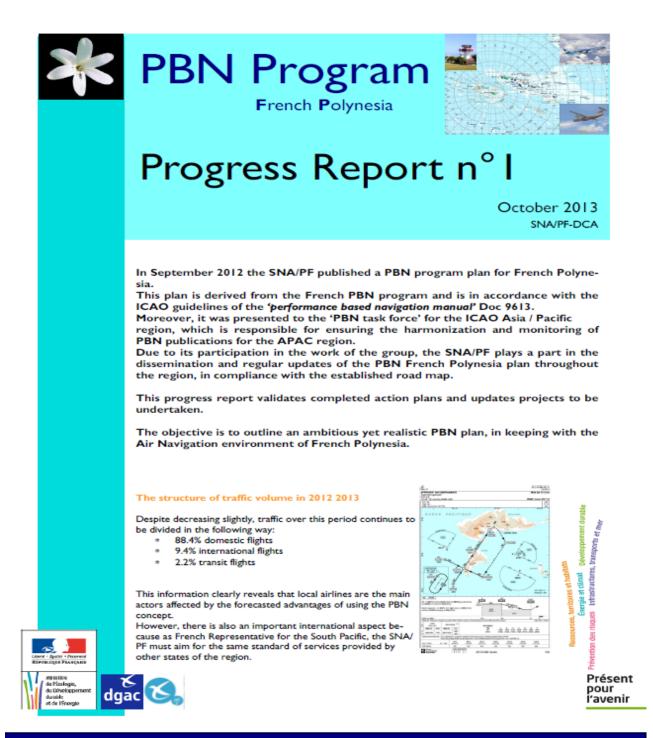
1. INTRODUCTION

- 1.1 Although a national plan has been defined for the implementation of PBN (Performance Based Navigation) operations in France, French Polynesia has chosen to perform its own version in 2012.
- 1.2 The road map defines the working hypothesis which is to be considered by all of the stakeholders over three periods: short term (2012/2014), medium term (2015/2019) and long term (2020 and later

2. DISCUSSION

- 2.1 The PBN implementation, mainly based upon means of Satellite navigation, must be capable of redefining with stakeholders an infrastructure matching the future needs and cost control requirement.
- 2.2 Presentation:







Tasks undertaken in 2012/2013

1. Implementation of a CDM approach

An important step forward was made in May 2013 in the form of pilot/controller meetings involving relevant stakeholders in the Tahiti Faa'a platform. These monthly meetings aim to inform respective parties of their individual roles and also to integrate airspace changes better, particularly those concerning progress linked to the PBN plan.

2. Transition strategy

By associating the main local stakeholders in the implementation strategy of RNAV/GNSS procedures, the transition from traditional procedures towards RNAV/GNSS is carried out according to shared operational, training and security requirements:

- Activation of the RNAV/GNSS network in the Leeward Islands in partnership with Air Tahiti following cross-sectorial training programs and shared feedback.
- Planning meetings for project managers concerning the choice of suggested sites for implementing RNAV/ GNSS procedures with Air Tahiti, the DAC/PF operator, the country's aerodromes and the SNA/PF.
- SNA/PF participation at meetings organized by the ICAO in the APAC region aiming to integrate the PBN SNA/PF project into the 'seamless' regional system.

3. The development of PBN tools in 2012/2013

In accordance with the Road Map and on the basis of available funds, the SNA/PF has integrated the development of the PBN plan into its general action plan.

 Publication of RNAV/GNSS procedures for the aerodromes in HIVA OA, HAO and TUBUAI; a strategy linked to the implementation of at least one RNAV/

COM

SUR

 GNSS per archipelago,
From 01/08/2013 longitudinal separation using the GNSS was implemented, based on the regulatory references : DOC 4444 (§ 5.4.2.3) and Circular 321 AN/183 ICAO,
Bestering of the IMM ExecuteX in ATC in

- Reorganization of the IHM Eurocat-X in ATC in order to facilitate CPDLC dialogue and the use of data link procedures,
 - Cost- benefit analysis of the implementation of ADS-B antennas in addition to VHF deployment via satellite presented to ICAO APAC and DGAC (General Direction of Civil Aviation),
 - * Provision of ADS-B progress in the APAC region.



ATM Eurocat X System : RNAV maps

Road map for 2013/14

Previously endorsed actions remain in the workload schedule. A permanent dialogue between all stakeholders updates them.

| ATM | * | Contribution to the PBN "seamless" network in the APAC region, |
|-----|---|---|
| NAN | * | Study and publication of RNAV/GNSS procedures for RANGIROA, NUKU HIVA, FAKARAVA, TIKEHAU and RURUTU, |
| | * | Improvement of the RNAV/GNSS network in the Leeward Islands after 6 months in operation, |
| сом | * | Ongoing improvements made to data link specifications in the Eurocat-X tool, according to TopSky sys- tem roadmap, |
| SUR | * | Continuation of the study of ADS-B / VSAT installation in French Polynesia. |

French Polynesia PBN Program

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) Note the information contained within this paper.