

**Twenty Seventh Meeting of the
Informal South Pacific ATS Co-ordinating Group
(ISPACG/27)**

**Auckland, New Zealand
27 February – 01 March 2013**

Agenda Item 6 – Other Business

PBN in New Zealand

Presented by Airways New Zealand

SUMMARY

This paper provides a summary of PBN activities in New Zealand.

1. INTRODUCTION

- 1.1 New Zealand drafted its initial PBN Implementation Plan in 2006. Since then steady progress has been made with the latest implementation phase being PBN-based ATM system for Enroute and Approach environments in the southern region of New Zealand.
- 1.2 Airways NZ PBN Project is in line with CAA's national 'PBN Implementation Plan – New Zealand', and follows PBN guidance from ICAO Asia-Pacific and from the ICAO 'Performance Based Navigation (PBN) Manual', Doc 9613.

2. DISCUSSION

- 2.1 The following PBN navigation specifications were selected for implementation within NZ Airspace:
 - RNAV2 - Enroute;
 - RNAV1 - SIDs and STARs in areas with ATC surveillance;
 - Basic-RNP 1 - Arrivals and Departures in areas with limited or no ATC surveillance
 - RNP APCH - Approaches, designated RNAV(GNSS);
 - RNP AR APCH – Approaches, designated RNAV (RNP) where operationally required (i.e. NZQN) or where additional operational benefit could be achieved in addition to RNP APCH services (i.e. NZAA, NZWN, NZCH)
- 2.2 As part of its implementation program, new procedures were introduced to QN (and NV) effective 15 Nov 2012. Due to terrain limitations, procedures at QN are primarily RNP-AR optimised for B737 and A320 operations.



- 2.3 The QN implementation has provided significant benefits with airport capacity increasing from 6 to 12 IFR movements per hour (less delays), an increased payload outbound and reduced workload for ATC.
- 2.4 RNP APCH, SIDs and STARs are now available at all the Primary airports serving International traffic and RNP AR APCHs are available at AA and QN for approved operators. RNAV SIDs/ STARs are currently available at CH and WN and procedures will be enhanced in the next 2 years including the addition of RNP AR procedures for approved operators.

3. ACTION BY THE MEETING

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