



*International Civil Aviation Organization*

**THE NINTH MEETING OF PERFORMANCE BASED NAVIGATION  
IMPLEMENTATION COORDINATION GROUP (PBNICG/9)**

Video Conference, 22 – 24 March 2022

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Agenda Item 3: Implementation status of the Regional Transition Plan for RNP APCH Chart Identification from RNAV to RNP

**MALAYSIA REGIONAL TRANSITION PLAN PROGRESS**

**(Presented by Malaysia)**

**SUMMARY**

This information paper provides information on the latest progress of Regional Transition Plan for RNP APCH Chart Identification from RNAV to RNP In Malaysia.

**1. INTRODUCTION**

- 1.1 After the last PBNICG 8 video conference held on March 2021, Malaysia started the process to change, the identification PBN instrument flight procedure approach charts from RNAV RNP in compliance with Amendment 8 to the Procedure for Air Navigation Services – Aircraft Operations (Doc 8168, PANS-OPS) and the ICAO Circular 353.

**2. DISCUSSION**

**Malaysia's Implementation Plan**

- 2.1 An AIC detailing the process was published on December 16<sup>th</sup> 2021.

2.2 Summary of chart identification changes are as follow:

Navigation Specification	Existing Chart Identification	New Chart Identification
RNP APCH	RNAV (GNSS) Y RWY 32R	RNP Y RWY 32R
RNP AR APCH	RNAV (RNP) Z RWY03	RNP Z RWY03 (AR)

2.3 The new PBN approach charts will be identified as RNP in accordance to the new chart identification method. The changes and transformation to the identification of the existing charts published in AIP Malaysia are as shown below:-

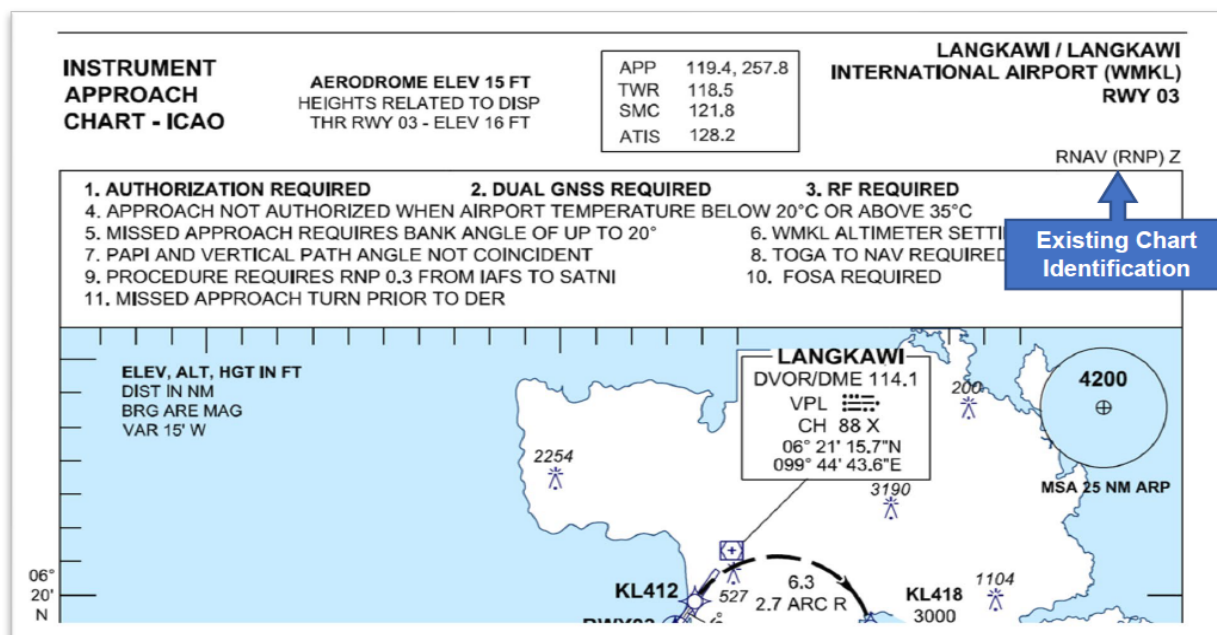


Figure 1 – Current chart identification publish in AIP Malaysia.

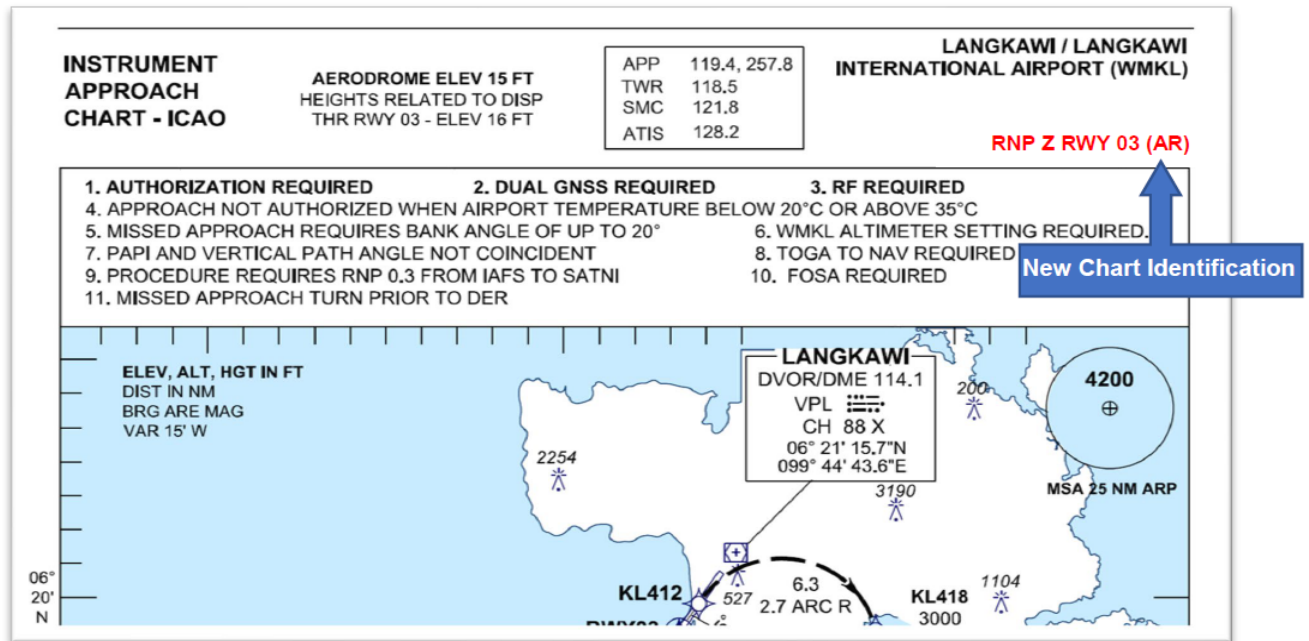


Figure 2 – New chart identification name, replacing RNAV (RNP) Z.

2.4 During the transition period, Air Traffic Controller (ATC) may issue an approach clearance as per the identification published in the current charts:

<b>Existing Chart as Published</b>	
<b>Chart Identification</b>	<b>ATC Phraseology</b>
RNAV (GNSS) Y	Cleared RNAV Yankee Approach Runway ( <i>number</i> )
RNAV (RNP) Z	Cleared RNAV Zulu Approach Runway ( <i>number</i> )
<b>Transition to New Chart</b>	
<b>Chart Identification</b>	<b>ATC Phraseology</b>
RNP Y RWY ( <i>number</i> )	Cleared RNP Yankee Approach Runway ( <i>number</i> )
RNP Z RWY ( <i>number</i> ) (AR)	Cleared RNP Zulu Approach Runway ( <i>number</i> )

2.5 The transition plan would be carried out in two phases. Phase 1 would be implemented by second quarter of 2022 and Phase 2 the final quarter of 2022. Details of the aerodromes (international & domestic) impacted in this transition plan are listed below:-

INTERNATIONAL AERODROME									
No.	Aerodrome (ICAO Code)	RWY End	LNAV	LNAV/VNAV	RNP AR	Existing Chart Identification	Page in AIP Malaysia	New Chart Identification	Implementation Plan
1	KL International Airport (WMKK)	14L	Y	Y		RNAV (GNSS) RWY 14L	AD 2-WMKK-8-3	RNP Y RWY 14L	Phase 1
		14R	Y	Y		RNAV (GNSS) RWY 14R	AD 2-WMKK-8-7	RNP Y RWY 14R	Phase 1
		15	Y	Y		RNAV (GNSS) RWY 15	AD 2-WMKK-8-11	RNP Y RWY 15	Phase 1
		32L	Y	Y		RNAV (GNSS) RWY 32L	AD 2-WMKK-8-15	RNP Y RWY 32L	Phase 1
		32R	Y	Y		RNAV (GNSS) RWY 32R	AD 2-WMKK-8-19	RNP Y RWY 32R	Phase 1
		33	Y	Y		RNAV (GNSS) RWY 33	AD 2-WMKK-8-23	RNP Y RWY 33	Phase 1
2	Langkawi International Airport (WMKL)	03			Y	RNAV (RNP) Z	AD 2-WMKL-8-9	RNP Z RWY 03 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y	AD 2-WMKL-8-11	RNP Y RWY 03	Phase 1
3	Penang International Airport (WMKP)	04			Y	RNAV (RNP) Z	AD 2-WMKP-8-7	RNP Z RWY 04 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y	AD 2-WMKP-8-15	RNP Y RWY 04	Phase 1
		22			Y	RNAV (RNP) Z	AD 2-WMKP-8-11	RNP Z RWY 22 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y	AD 2-WMKP-8-19	RNP Y RWY 22	Phase 1
4	Senai International Airport (WMKJ)	16			Y	RNAV (RNP) Y	AD 2-WMKJ-8-15	RNP Z RWY 16 (AR)	Phase 1
		34			Y	RNAV (RNP) Y	AD 2-WMKJ-8-19	RNP Z RWY 34 (AR)	Phase 1
5	Kuching International Airport (WBGG)	07			Y	RNAV (RNP) Z	AD 2-WBGG-8-11	RNP Z RWY 07 (AR)	Phase 2
		25			Y	RNAV (RNP) Z	AD 2-WBGG-8-17	RNP Z RWY 25 (AR)	Phase 2
6	Kota Kinabalu International (WBKK)	02	Y	Y		RNAV (GNSS) Y	AD 2-WBKK-8-21	RNP Y RWY 02	Phase 2
					Y	RNAV (RNP) Z RWY 02	AD 2-WBKK-8-25	RNP Z RWY 02 (AR)	Phase 2
		20	Y	Y		RNAV (GNSS) Y	AD 2-WBKK-8-23	RNP Y RWY 20	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBKK-8-31	RNP Z RWY 20 (AR)	Phase 2

DOMESTIC AERODROME									
No.	Aerodrome (ICAO Code)	RWY End	LNAV	LNAV/VNAV	RNP AR	Existing Chart Identification	Page in AIP Malaysia	New Chart Identification	Implementation Plan
7	Sultan Abdul Halim (WMKA)	04			Y	RNAV (RNP) Z	AD 2-WMKA-8-9	RNP Z RWY 04 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y RWY 04	AD 2-WMKA-8-13	RNP Y RWY 04	Phase 1
8	Sultan Abdul Aziz Shah (WMSA)	15	Y	Y		RNAV (GNSS)	AD 2-WMSA-8-5	RNP Y RWY 15	Phase 1
		33	Y	Y		RNAV (GNSS)	AD 2-WMSA-8-7	RNP Y RWY 33	Phase 1
9	Malacca (WMKM)	03	Y	Y		RNAV (GNSS) RWY03	AD 2-WMKM-8-9	RNP Y RWY 03	Phase 1
		21	Y	Y		RNAV (GNSS) RWY21	AD 2-WMKM-8-19	RNP Y RWY 21	Phase 1

10	Sultan Mahmud (WMKN)	04			Y	RNAV (RNP) Z	AD 2-WMKN-8-13	RNP Z RWY 04 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y RWY 04	AD 2-WMKN-8-21	RNP Y RWY 04	Phase 1
		22			Y	RNAV (RNP) Z	AD 2-WMKN-8-17	RNP Z RWY 22 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y RWY 22	AD 2-WMKN-8-23	RNP Y RWY 22	Phase 1
11	Sultan Ismail Petra (WMKC)	10			Y	RNAV (RNP) Z	AD 2-WMKC-8-7	RNP Z RWY 10 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y	AD 2-WMKC-8-15	RNP Y RWY 10	Phase 1
		28			Y	RNAV (RNP) Z	AD 2-WMKC-8-11	RNP Z RWY 28 (AR)	Phase 1
			Y	Y		RNAV (GNSS) Y	AD 2-WMKC-8-17	RNP Y RWY 28	Phase 1
12	Bintulu (WBGB)	17	Y	Y		RNAV (GNSS) Y	AD 2-WBGB-8-5	RNP Y RWY 17	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBGB-8-11	RNP Z RWY 17 (AR)	Phase 2
		35	Y	Y		RNAV (GNSS) Y	AD 2-WBGB-8-9	RNP Y RWY 35	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBGB-8-13	RNP Z RWY 35 (AR)	Phase 2
13	Sibu (WBGS)	13			Y	RNAV (RNP) Z	AD 2-WBGS-8-11	RNP Z RWY 13 (AR)	Phase 2
		31			Y	RNAV (RNP) Z	AD 2-WBGS-8-15	RNP Z RWY 31 (AR)	Phase 2
14	Miri (WBGR)	02	Y	Y		RNAV (GNSS) Y	AD 2-WBGR-8-13	RNP Y RWY 02	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBGR-8-21	RNP Z RWY 02 (AR)	Phase 2
		20	Y	Y		RNAV (GNSS) Y	AD 2-WBGR-8-15	RNP Y RWY 20	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBGR-8-25	RNP Z RWY 20 (AR)	Phase 2
15	Labuan (WBKL)	14	Y	Y		RNAV (GNSS) Y	AD 2-WBKL-8-5	RNP Y RWY 14	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBKL-8-11	RNP Z RWY 14 (AR)	Phase 2
		32	Y	Y		RNAV (GNSS) Y	AD 2-WBKL-8-9	RNP Y RWY 32	Phase 2
					Y	RNAV (RNP) Z	AD 2-WBKL-8-13	RNP Z RWY 32 (AR)	Phase 2
16	Sandakan (WBKS)	08			Y	RNAV (RNP) Z	AD 2-WBKS-8-11	RNP Z RWY 08 (AR)	Phase 2
		26			Y	RNAV (RNP) Z	AD 2-WBKS-8-15	RNP Z RWY 26 (AR)	Phase 2
17	Tawau (WBKW)	06			Y	RNAV (RNP) Z RWY 06	AD 2-WBKW-8-7	RNP Z RWY 06 (AR)	Phase 2
		24			Y	RNAV (RNP) Z RWY 24	AD 2-WBKW-8-11	RNP Z RWY 24 (AR)	Phase 2

2.6 Malaysia is hoping by the end of 2022, all respective charts will be updated to a new format in compliance with Amendment 8 to the Procedure for Air Navigation Services – Aircraft Operations (Doc 8168, PANS-OPS) and the ICAO Circular 353.

### 3. ACTION BY THE MEETING

#### 3.1 The meeting is invited to:

Note the information contained in this papers

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