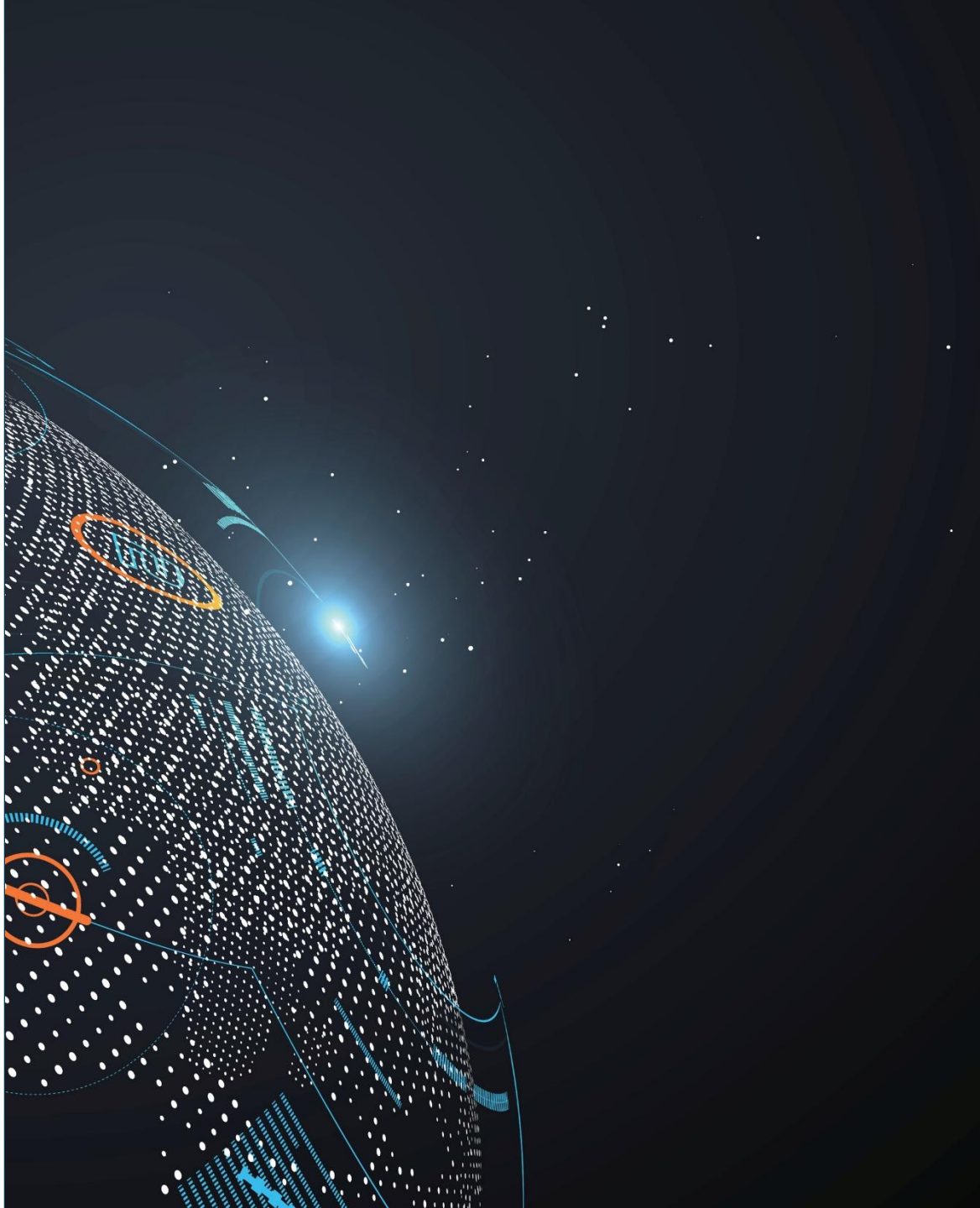

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INTERNATIONAL
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ORGANIZATION

RNP VPT

Irwandi Krisnata/ Regional Officer, PBN
ICAO APAC RSO

PBNICG/13 Meeting
Bangkok – Thailand, 14-16 October 2026



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Overview

01 VPT Concept



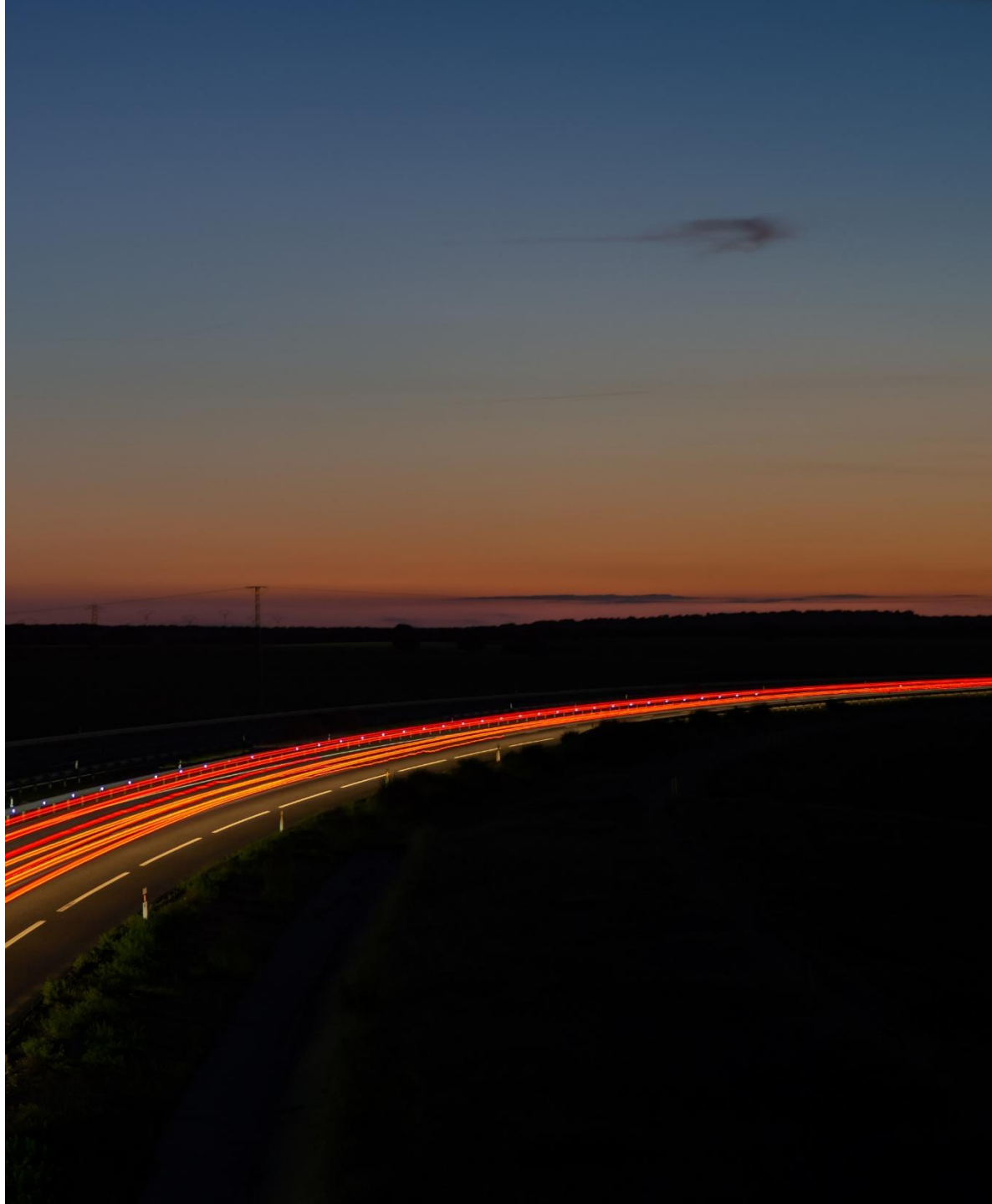
02 Benefit



03 Example

04 Way forward

VPT Concept



What is RNP VPT

Previous

State A:
RNAV Visual

State B:
Visual Guidance

?

- No ICAO Document
- No Airworthiness Regulation
- No Operational Regulation
- No Harmonization for Procedure Design

What is RNP VPT

2014 The topic was proposed at the first Flight Operations Panel meeting in 2014

2015 The task was approved by the Air Navigation Commission ANC in 2015

2015-2023 A multi-disciplinary group was established to work on this project including

- PBN Study Group,
- ATMOPSP
- IFPP

2015-2023 ICAO Publish Circular 359 RNP (VPT)

Why ICAO Developed RNP VPT

Operational Drivers

- Airports constrained by terrain
- Noise-sensitive communities
- Predictable ATC arrival paths
- Stabilized approaches
- Improved aerodrome accessibility

Benefits

Safety

- Stable approach path
- Predictable flight tracks
- Reduced visual manoeuvring variability

Efficiency

- Fuel savings
- Reduced track miles
- Better arrival sequencing

Access

- Challenging aerodromes
- Terrain-constrained environments
- Greater use of PBAOM concepts

What is RNP VPT

"An IFR procedure including an RNP instrument path followed by a visual path defined by waypoints to promote stabilized approach and prescribed visual manoeuvring to a designated runway"

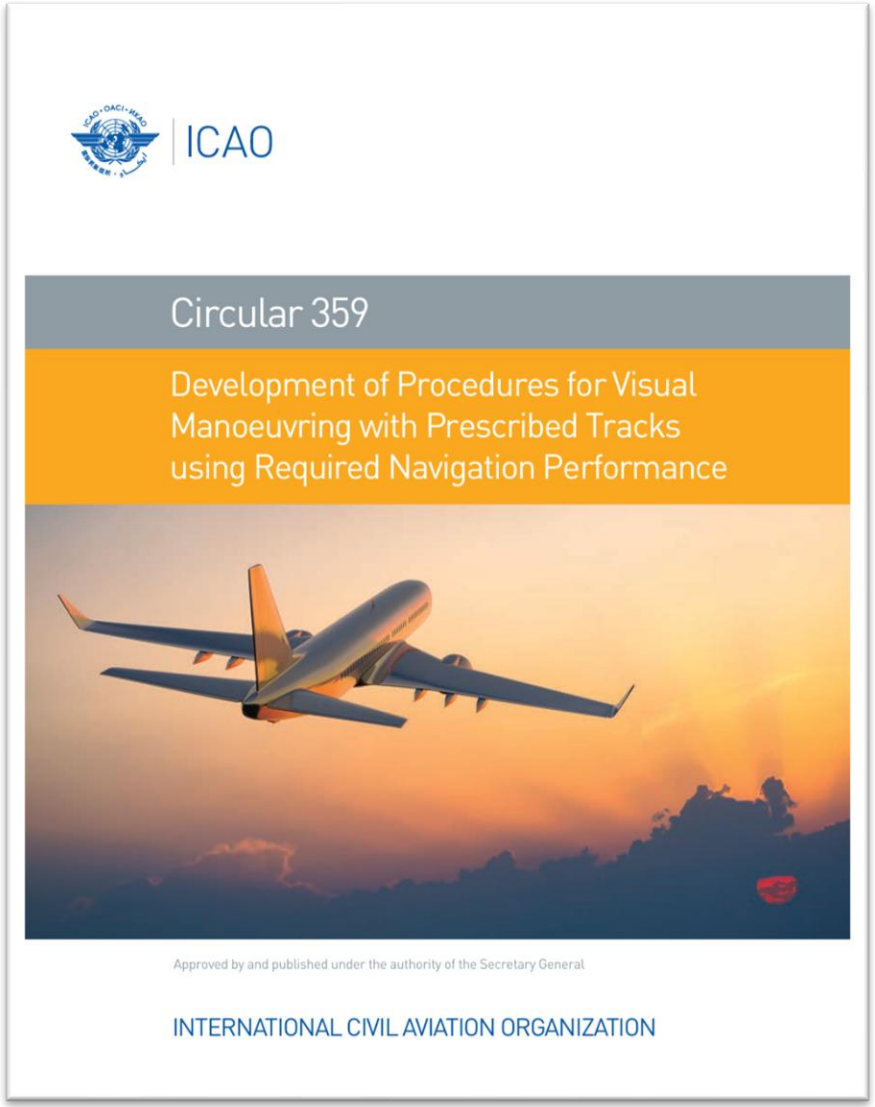
- IFR procedure **combining:**

  (RNP instrument path + Visual segment with prescribed track)
- **Uses RNP waypoints** to support stabilized visual manoeuvring.
- Published **for authorized operators**.

What is RNP VPT

Guidance provided in ICAO Circular 359 :

- Scope identical to previous RNAV Visual
- Guidance for authorisation/approval
- Guidance for development and publication
- Guidance for SOPs
- Guidance for training



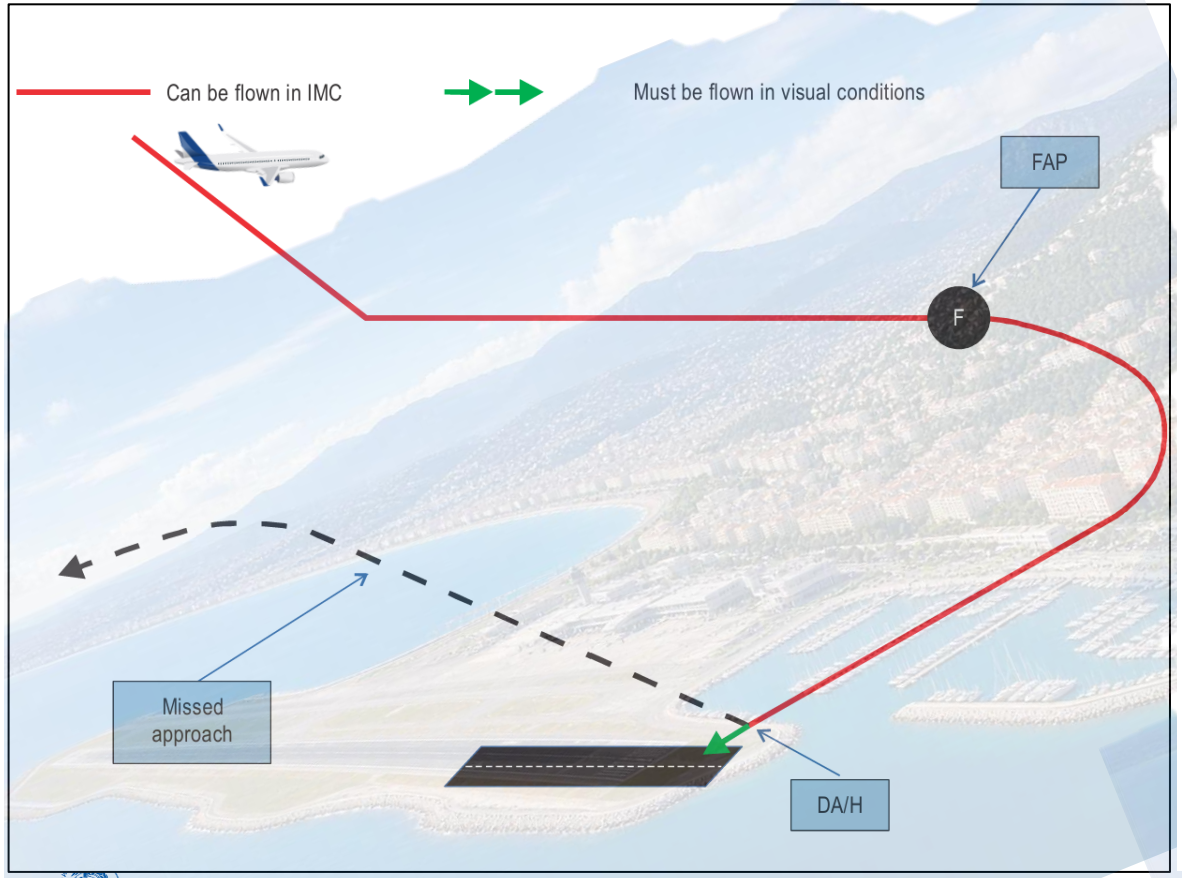
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How ICAO Developed RNP VPT

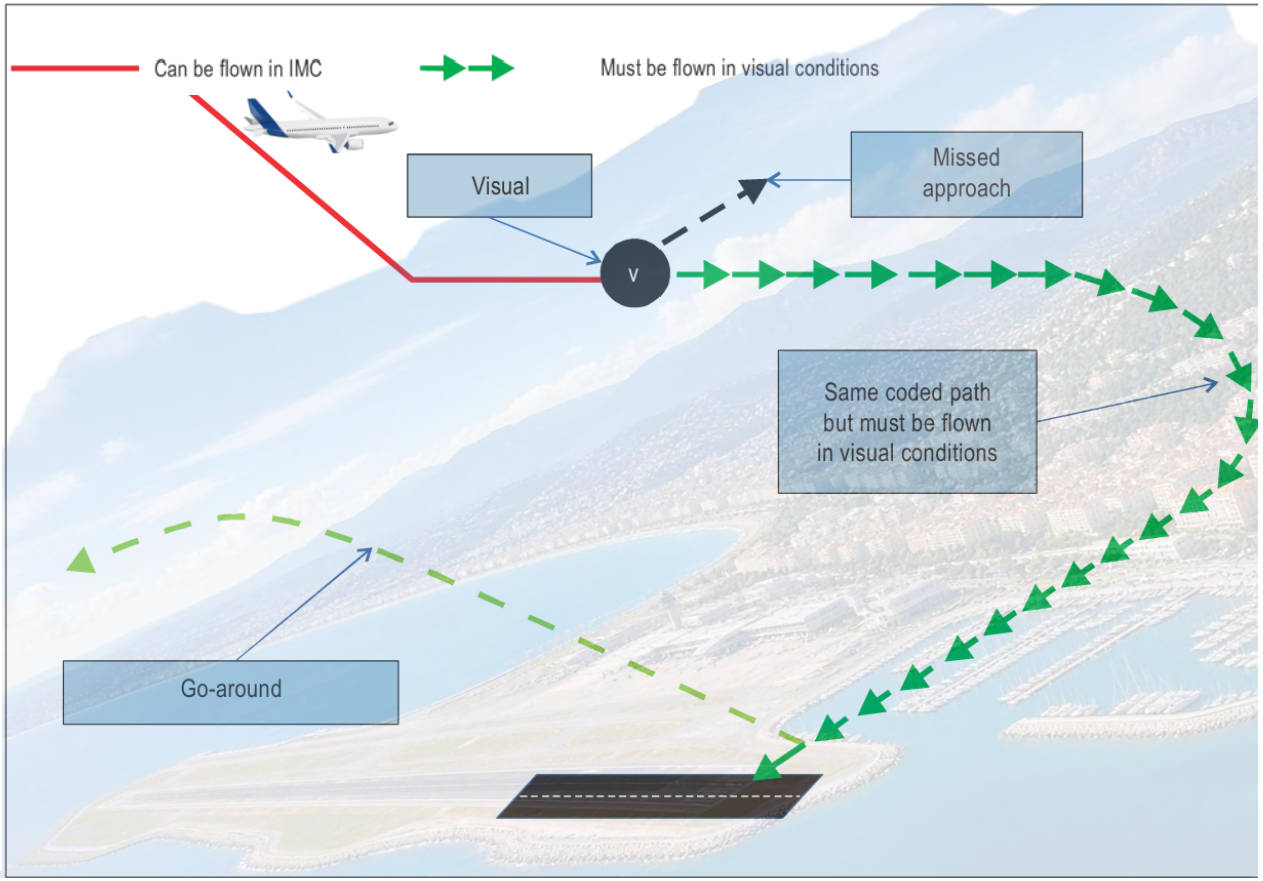
	Published Procedure	Operator Proprietary Procedure
AIP Publication	Published in AIP	No Publication on AIP (Internal operator use)
ATC Clearance	ATC clearance required	No ATC clearance required (Transparent to ATC)
Main Role	ANSP (with an operator and are intended to be published for use)	Operator
Design Criteria	Doc. 8168 (RNP AR APCH)	No Specified Design Criteria
Availability	Available to authorized operators	Company-specific

How ICAO Developed RNP VPT

Typical RNP AR Procedure



RNP (VPT) procedure based on the RNP AR



Operational Approval Requirements

Authorization is based on operator capability and assessment process.

- RNP 1 or A-RNP capability
- RNP APCH authorization
- RF capability where required
- Flyability assessment
- Crew training
- SOPs and contingency procedures

Consideration & Wayforward

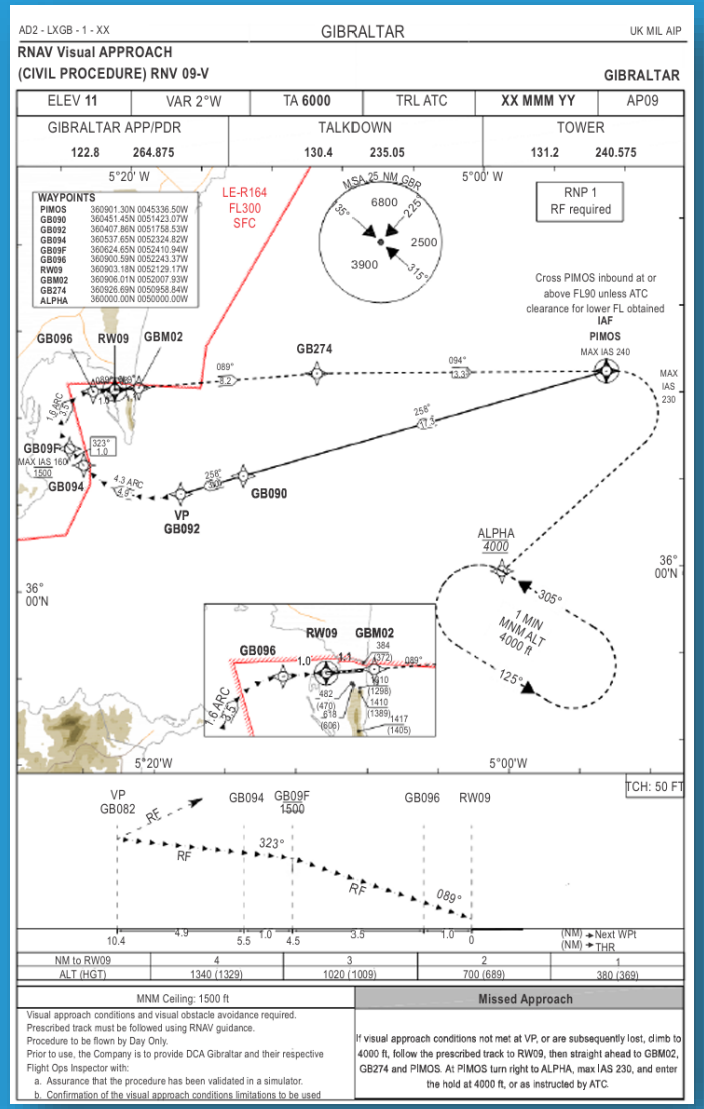


Considerations

- States should endeavor to design and publish procedures using criteria published in Doc 8168 and Doc 9905
- Early coordination among regulators, ANSPs and operators
- Suitable candidate aerodromes
- Procedure design capability
- Validation and testing
- ATC procedures and training
- Operator approval framework
- Charting and publication process

Examples

Published Procedure



Operator Proprietary Procedure

(Created in accordance with Part II, Chapter 2)

Genoa (LIMJ/GOA)



Waypoint ID	*PT*	*FAF MAP*	*Fix lat.*	*Fix long.*	*Alt Cd*	*Alt*	*Vert. Angle*	*Coord. lat.*	*Coord. long.*
MJ10C	IF		N44-24-08.20	E008-53-28.26	+	1360			
MJ20C	TF		N44-22-35.70	E008-49-42.14	+	1360			
MJ30C	TF		N44-23-10.19	E008-46-46.37	+	1360			
MJ35C	RF	F	N44-23-55.86	E008-45-42.10	+	1360	3.3	N44-24-13.85	E008-47-10.68
MJ40C	RF		N44-25-17.50	E008-47-35.00	+	546	3.3	N44-24-13.85	E008-47-10.68
RW10	TF	M	N44-24-55.52	E008-49-27.07		59	3.3		
Holding/Racetrack to a manual termination (HM) leg follows runway track.									

Way Forward

1. Are there APAC aerodromes that could benefit from RNP VPT?
2. Are States interested in sharing implementation experience?
3. Can RNP VPT support future PBAOM initiatives in the region?
4. States consider to discuss RNP (VPT) to PBN National Forum?

Useful Preference

FLTOPSP/8-WP/04

https://www.icao.int/sites/default/files/sp-files/SAM/Documents/2022-RLA06901-GESEA/2.%20FLTOPSP8%20WP04%20VPT%20RNAV%20Draft%20circular.pdf

EASA SIB : Development and Usage of Procedures for Visual Manoeuvring with Prescribed Tracks Relying on Required Navigation Performance

https://ad.easa.europa.eu/blob/EASA_SIB_2025_05.pdf/SIB_2025-05_1

PBNICG/12/WP03.Initiative for RNP-VPT implementation by Thailand

https://www.icao.int/sites/default/files/APAC/Meetings/2025/2025%20PBNICG%2012/WPs%20IPs%20Presentations/WP03_THA_AI4-Initiative-for-RNP-VPT-implementation-by-Thailand_Rev.1.pdf

Action to the Meeting

- note the information contained in this papers;
- discuss any relevant matters as appropriate.

Thank You



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