



交通部民用航空局 核定採用國際飛航標準

主旨：航空器使用人執行以性能為基礎之導航作業(The Operation of Performance-based Navigation)

發行日期： 2021.12.01	依據： 民用航空法第 41 條之 1 第 2 項； 航空器飛航作業管理規則第 133 條第 3 項、第 263 條第 3 項、第 346 條第 3 項	編號： NO.7
-----------------------------------	--	---------------------------

一、適用對象

民用航空運輸業、普通航空業及執行一般飛航作業之航空器使用人，以航空器飛航於以性能為基礎之導航之空域或航路者。

二、說明

交通部民用航空局核定採用 ICAO Doc 9613 Performance – based Navigation (PBN) Manual 有關以性能為基礎之導航之規定。

三、符合性

航空器使用人執行以性能為基礎之導航作業應符合本文件第四節之規定。

四、作業標準

- (一) 航空器使用人執行以性能為基礎之導航作業，採用 ICAO Doc 9613 Performance – based Navigation (PBN) Manual (第 4 版)及其後續修訂版，其目錄如附件一。

五、取代資訊

無。

附件一 ICAO Doc 9613 Performance – based Navigation (PBN)

Manual

TABLE OF CONTENTS

Foreword	I-(ix)
References	I-(xiii)
Abbreviations	I-(xv)
Explanation of terms	I-(xvii)

PART A — THE PERFORMANCE-BASED NAVIGATION (PBN) CONCEPT

Chapter 1. Description of Performance-based Navigation (PBN)	I-A-1-1
1.1 Introduction	I-A-1-1
1.2 Navigation specification	I-A-1-3
1.3 NAVAID infrastructure	I-A-1-6
1.4 Navigation applications	I-A-1-7
1.5 Relationship between navigation specification, NAVAID infrastructure	
and navigation applications	I-A-1-7
1.6 Future developments	I-A-1-7
Chapter 2. Airspace concepts	I-A-2-1
2.1 Introduction	I-A-2-1
2.2 The airspace concept	I-A-2-1
2.3 Airspace concepts by area of operation	I-A-2-3
Chapter 3. Stakeholder uses of Performance-based Navigation (PBN)	I-A-3-1
3.1 Introduction	I-A-3-1
3.2 Airspace planning	I-A-3-3
3.3 IFP design	I-A-3-5
3.4 Airworthiness and operational approval	I-A-3-7
3.5 Flight crew and air traffic operations	I-A-3-10

PART B — IMPLEMENTATION GUIDANCE

Chapter 1. Introduction to implementation processes	I-B-1-1
1.1 Introduction	I-B-1-1
1.2 Process overview	I-B-1-1
1.3 Development of a new navigation specification	I-B-1-2
Chapter 2. Process 1: Identifying an ICAO navigation specification for implementation	I-B-2-1
2.1 Introduction	I-B-2-1
2.2 Input to Process 1	I-B-2-1

2.3 Steps in Process 1	I-B-2-1
Chapter 3. Process 2: Validation and implementation planning	I-B-3-1
3.1 Introduction	I-B-3-1
3.2 Inputs to Process 2	I-B-3-1
3.3 Steps in Process 2	I-B-3-1

ATTACHMENTS TO VOLUME I

Attachment A. RNAV and RNP systems	I-Att A-1
1. Purpose	I-Att A-1
2. Background	I-Att A-1
3. RNAV and RNP systems — basic functions	I-Att A-3
4. RNP system — basic functions	I-Att A-5
5. Specific RNAV and RNP system functions	I-Att A-6
Attachment B. Data processes	I-Att B-1
1. Aeronautical data	I-Att B-1
2. Data accuracy and integrity	I-Att B-2
3. Provision of aeronautical data	I-Att B-2
4. Altering aeronautical data	I-Att B-4
Attachment C. Operational approval	I-Att C-1
1. Overview	I-Att C-1
2. State regulatory responsibilities	I-Att C-2
3. Operational approval	I-Att C-2
4. Documentation of operational approval	I-Att C-5
5. State regulatory material	I-Att C-5
6. Approval process	I-Att C-6
7. Foreign operations	I-Att C-7

(以下空白)