



# Australian Government

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## Civil Aviation Safety Authority

Instrument number CASA EX158/21

I, DANIEL BERNARD O'HAGAN, Manager, Legislative Drafting, a delegate of CASA, make this instrument under regulations 11.160, 11.205 and 173.375 of the *Civil Aviation Safety Regulations 1998*.

**[Signed D.B. O'Hagan]**

Danny O'Hagan  
Manager, Legislative Drafting

30 November 2021

### **CASA EX158/21 — Applicable Instrument Flight Procedure Design Standards (GE Digital) Instrument 2021**

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#### **1 Name**

This instrument is *CASA EX158/21 — Applicable Instrument Flight Procedure Design Standards (GE Digital) Instrument 2021*.

#### **2 Duration**

This instrument:

- (a) commences on 1 December 2021; and
- (b) is repealed at the end of 30 November 2024.

#### **3 Definitions**

*Note* In this instrument certain terms and expressions have the same meaning as they have in the *Civil Aviation Act 1988* and the regulations. These include ***terminal instrument flight procedure***.

In this instrument:

***chief designer*** includes a person appointed by GE Digital and approved by CASA to act as the chief designer for GE Digital.

***design work***, in relation to a TIFP, has the meaning given by regulation 173.010 of CASR.

***GE Digital*** means GE Digital LLC, ARN 782924, of 20415 72<sup>nd</sup> Avenue South, Suite 300, Kent, WA, 98032, United States of America.

***GE Digital design criteria*** means the design criteria mentioned in:

- (a) the document titled *GE Digital LLC Design Criteria Manual*, Volume A4A, Issue 6, as existing at the time this instrument commences; and

- (b) the document titled *GE Digital LLC DCM Regulatory Supplement – CASA*, Volume A4B.02, Issue 8, containing the Multi-Variant Design Specification, as existing at the time this instrument commences.

***GE Digital design criteria TIFP*** means an RNP AR TIFP designed by GE Digital in accordance with the GE Digital design criteria.

***ICAO Doc 9905*** means the ICAO Doc. 9905 *Required Navigation Performance Authorization Required (RNP AR) Procedure Design Manual*, as in force from time to time.

*Note* The definition of ***other AIS applicable ICAO documents*** in Part 1 of the CASR Dictionary defines several ICAO documents (including *ICAO Doc 9905*) as approved and published by decision of the Council of the International Civil Aviation Organization, as in force from time to time.

***ICAO Doc. 8168 (PANS-OPS)*** has the meaning given by regulation 173.010 of CASR.

*Note* Regulation 173.010 defines ***ICAO Doc. 8168 (PANS-OPS)*** as Doc.8168-OPS/611 Volume II (Procedures for Air Navigation Services – Construction of Visual and Instrument Flight Procedures) approved and published by decision of the Council of the International Civil Aviation Organisation, as in force from time to time.

***Part 173 MOS*** means the *Manual of Standards (MOS) Part 173 – Standards Applicable to the Provision of Instrument Flight Procedure Design*, as in force from time to time.

***RNP AR*** means a Required Navigation Performance Authorization Required Approach (***RNP AR APCH***) mentioned in the Part 173 MOS.

***TIFP*** means a terminal instrument flight procedure for a location in Australia.

#### **4 Exemption — RNP AR TIFP designed to ICAO standards**

- (1) In relation to design work on an RNP AR TIFP conducted by GE Digital in accordance with ICAO Doc. 8168 (PANS-OPS) and ICAO Doc 9905, GE Digital is exempt from compliance with the following provisions of CASR:
- (a) paragraph 173.125 (b) — to the extent that the paragraph requires GE Digital to ensure that a qualified designer meets the requirement mentioned in paragraph 3.1.3.1 (a) of the Part 173 MOS;
  - (b) subregulation 173.165 (2) — to the extent that the subregulation requires GE Digital to comply with paragraph 3.1.2.1 (c) of the Part 173 MOS in relation to the appointment of the chief designer.

*Note* Subsection 3.1.3.1 of the Part 173 MOS sets out the minimum standard for the qualifications and experience of a qualified designer including, in paragraph (a), satisfactory completion of an approved PANS-OPS procedures design course. Subsection 3.1.2.1 of the Part 173 MOS sets out the minimum standard for the qualifications and experience of a chief designer including, in paragraph (c), satisfactory completion of an advanced course in PANS-OPS procedure design.

- (2) The exemption is subject to the conditions in section 6.

#### **5 Exemption — GE Digital design criteria TIFP**

- (1) In relation to design work on a GE Digital design criteria TIFP, GE Digital is exempt from compliance with a provision of CASR mentioned in column 1 of the Table in Schedule 1 to the extent mentioned for the provision in column 2 of the Table.
- (2) The exemption is subject to the conditions in sections 6 and 7.

## **6 General conditions**

- (1) GE Digital must comply with any written instructions given by CASA for the purpose of ensuring that GE Digital complies with the requirements of this instrument.
- (2) GE Digital must clearly mark each RNP AR TIFP with the words “FOR CASA-APPROVED OPERATORS ONLY”.

## **7 Conditions — GE Digital design criteria TIFP**

- (1) GE Digital must give written notice to CASA at least 14 days written notice before making an amendment to a document referred to in paragraph (a) or (b) of the definition of *GE digital design criteria*, unless the amendments are only of an editorial or clerical nature and do not affect technical or procedural matters.

*Note* Under Australian law, this instrument cannot apply the requirements of the GE Digital design criteria as amended from time to time. This instrument applies the requirements of the versions of the GE Digital design criteria documents mentioned in the definitions section. Any amendment that changes the substance of those requirements will require a reissue of this instrument before the changes can be relied upon under the exemption.

- (2) GE Digital must provide the document titled *GE Digital LLC Operational Guidance for GE Aviation RNP AR Procedures*, Volume C3B, Issue 2 to all operators licensed by GE Digital to fly a GE Digital design criteria TIFP designed by GE Digital in reliance on the exemption in section 5.
- (3) GE Digital must ensure that the reference materials, documents and records maintained for regulations 173.150 and 173.155 of CASR include:
  - (a) the GE Digital design criteria; and
  - (b) any other material specified in writing by CASA to be maintained.
- (4) GE Digital must not transfer its responsibility for maintaining a GE Digital design criteria TIFP unless CASA has approved the transfer in writing.

## **8 Direction — operations manual**

For subregulation 173.375 (1) of CASR, CASA directs GE Digital to ensure that its operations manual includes:

- (a) copies of each of the following:
  - (i) this instrument;
  - (ii) any directions given by CASA to GE Digital in relation to its design work;
  - (iii) the GE Digital design criteria; and
- (b) a description of the processes and documents used to present to staff the relevant standards, rules, procedures and drafting conventions contained in:
  - (i) the GE Digital design criteria; and
  - (ii) the provisions of the Part 173 MOS that apply to GE Digital in relation to its design work.

## Schedule 1 RNP AR GE Digital criteria

Item	Provision (Column 1)	Extent (Column 2)
1	Regulation 173.050	All.
2	Subregulation 173.075 (1)	The requirements in paragraph 2.1.1.1 (m) of the Part 173 MOS.
3	Regulation 173.085	The requirements in the following provisions of the Part 173 MOS: (a) Chapter 1; (b) Chapter 8, excluding paragraphs 8.1.1.3, 8.1.1.4, 8.1.1.5, 8.1.1.6 and 8.1.5.
4	Subregulation 173.090 (2)	The qualifications for a <i>qualified designer</i> mentioned in the definition of that term in subparagraph 173.090 (4) (b) (i).
5	Subparagraph 173.125 (b) (ii)	The requirement for training in accordance with the Part 173 MOS does not cover training in accordance with the following provisions of the Part 173 MOS: (a) paragraph 3.1.2.1 (c); (b) paragraph 3.1.2.2 (b); (c) paragraph 3.1.3.1 (a).
6	Subregulations 173.150 (1) and 173.155 (1)	The requirement to keep the documents specified in paragraph 4.1.1.1 of the Part 173 MOS.
7	Subregulation 173.165 (2)	The requirements in paragraph 3.1.2.1 (c) and 3.1.2.2 (b) of the Part 173 MOS.