



Paramaribo, January 12th, 2018

No. 1-2018-ANS

Decision Director CASAS

SUBJECT: QUALITY ASSURANCE Flight Procedure Design

1 Background

1.1 This DDC provides general provisions on quality assurance for the procedure design process. Detailed guidance can be found in the Quality Assurance Manual for Flight Procedure Design ICAO Doc 9906.

1.2 Suriname is responsible to ensure that all published instrument flight procedures in their airspace can be flown safely by the relevant aircraft. Safety is not only accomplished by application of the technical criteria in PANSOPS and associated ICAO provisions, but also requires measures that control the quality of the process used to apply that criteria, which may include regulation, air traffic monitoring, ground validation and flight validation. These measures shall ensure the quality and safety of the procedure design product through review, verification, coordination, and validation at appropriate points in the process, so that corrections can be made at the earliest opportunity in the process.

2 Purpose

2.1 This DDC seeks to establish the framework for a quality process for procedure design, including inputs, key required elements, recommendations, and expected outputs.

Definitions

Consultation. A conference between two or more people to consider a particular question.

Conceptual design. High-level graphical and/or textual description of the designer's interpretation of the stakeholders' requirements.

Designer. A person adequately trained who performs the design of an instrument flight procedure.

Flight procedure design. The complete package that includes all the considerations that went into the development of an instrument flight procedure.

Flight procedure design process. The process which is specific to the design of instrument flight procedures leading to the creation or modification of an instrument flight procedure.

Instrument flight procedure. A description of a series of predetermined flight manoeuvres by reference to flight instruments, published by electronic and/or printed means.

Instrument flight procedure process. The overarching process from data origination to the publication of an instrument flight procedure.

Integrity (aeronautical data). A degree of assurance that an aeronautical data and its value has not been lost or altered since the data origination or authorized amendment.

Process. A set of interrelated or interacting activities which transforms inputs into outputs (see ISO 9000:2000 *Quality management systems — Fundamentals and vocabulary*, section 3.4.1); hence "flight procedure design (FPD) process" or "instrument flight procedure process".

Procedure. A specified way to carry out an activity or a process (see ISO 9000:2000 *Quality management systems — Fundamentals and vocabulary*, section 3.4.5).

Quality record. Objective evidence which shows how well a quality requirement is being met or how well a quality process is performing. Quality records normally are audited in the quality evaluation process.

Review. An activity undertaken to determine the suitability, adequacy and effectiveness of the subject matter to achieve established objectives (see ISO 9000:2000 *Quality management systems — Fundamentals and vocabulary*, section 3.8.7).

Validation. Confirmation, through the provision of objective evidence, that the requirements for a specific intended use or application have been fulfilled (see Annex 15 — *Aeronautical Information Services*). The activity whereby a data element is checked as having a value that is fully applicable to the identity given to the data element, or a set of data elements that is checked as being acceptable for their purpose.

Verification. Confirmation, through the provision of objective evidence that specified requirements have been fulfilled (see Annex 15). The activity whereby the current value of a data element is checked against the value originally supplied