

LESSON LEARNED: FLIGHT VALIDATION

KEEPING ICAO DOC 9906 VOLUME 5 UPDATED

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Good afternoon!

Quick introduction:

- Senior Captain ENAV Flight Inspection and Validation Dept.
- Flight Crew Training Manager
- Member of ICAO IFPP (co-Rapporteur WG4 - QA)
- Member of ICASC
- Member of IFPDVA
- BSc, MSc, MBA

- Formerly: Air Traffic Controller



Updating 9906 volume 5

- ICAO Job Cards
- Inter-Panels coordination
- Field experience
- IFPP brainstorming



updating...

Updating 9906 volume 5

- ICAO Job Cards

JOB CARD IFPP019 (REVISION OF DOC. 9906 VOLUMES 1,3,5 AND 6)

(ongoing process)

Title	Revision of the Quality Assurance Manual for Flight Procedure Design (Doc 9906) – Vol. 1,3,5		Reference:	IFPP.019.01		
Source	IFPP 14.1					
Problem Statement	Quality assurance manual for flight procedure design - Doc 9906 Volumes 1, 3 and 5 needs to be reviewed and amended to assist in the implementation of instrument flight procedures as specified PANS-OPS Volume II and the RNP AR Manual. An update is needed to reflect the latest criteria, to provide additional guidance concerning the Instrument Flight Procedure Process and to correct inconsistencies in the document.					
Specific Details (including impact statements)	Amend Volumes 1, 3 and 5 in order to: <ul style="list-style-type: none"> ✓ Support implementation of PANS-OPS Volume II & RNP AR manual criteria which will assist Civil Aviation Safety Inspectors and Procedure Designers ✓ Ensure consistency across ICAO documentation (Doc 9906, Pans-Ops & RNP AR manual) ✓ Clarify material concerning the Instrument Flight procedure process ✗ Provide additional guidance to encourage closer cooperation/communication between States and the data houses that provide the coded data to the navigation database providers ✓ Correct errors within the document (references) ✓ Provide guidance to ensure data quality is maintained across the different stakeholders (e.g. encourage the reduction of media breaks to a minimum) ✓ Encourage awareness of the horizontal and vertical reference system used and issues pertaining to the transformation of the data 					
Expected Benefit	Support implementation of implementation of Instrument Flight Procedures					
Reference Documents	Doc 8168 (PANS-OPS Vol. II) Doc 9905 (RNP AR)					Attachments
Primary Expert Group	IFPP					
WPE No.	Document affected	Description of Amendment proposal or Action	Supporting Expert Group	Expected dates:		
				Expert Group	Effective	Applicability
	Doc 9906 Volume 1	Amend Doc 9906 Volume 1 : Flight Procedure Design Quality Assurance System		Q4/2017	Q4/2017	Q4/2017
	Doc 9906 Volume 3	Amend Doc 9906 Volume 3: Flight Procedure Design Software Validation		Q4/2017	Q4/2017	Q4/2017
	Doc 9906 Volume 5	Amend Doc 9906 Volume 5: Validation of Instrument Flight Procedures		Q4/2017	Q4/2017	Q4/2017

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- ICAO Panels coordination

Inclusion of material regarding validation previously contained within other documents, e.g. DOC 8071, not under the responsibility of IFPP

(ongoing process)

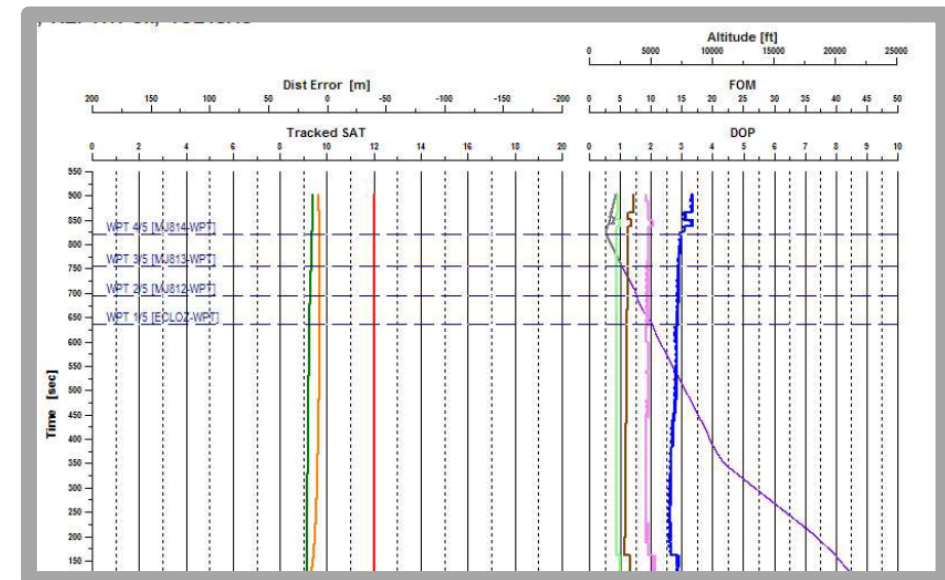


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- Field experience

- 1) Allowance to permit cross-validation for FVPs with proper training and competence (fixed wing / helicopters and viceversa), based on a case by case evaluation by the State Authority
- 2) Better explanation of the operational aspects (Flight Validation Aircraft, certification requirements, etc.)

(these are approved amendments soon to be published)

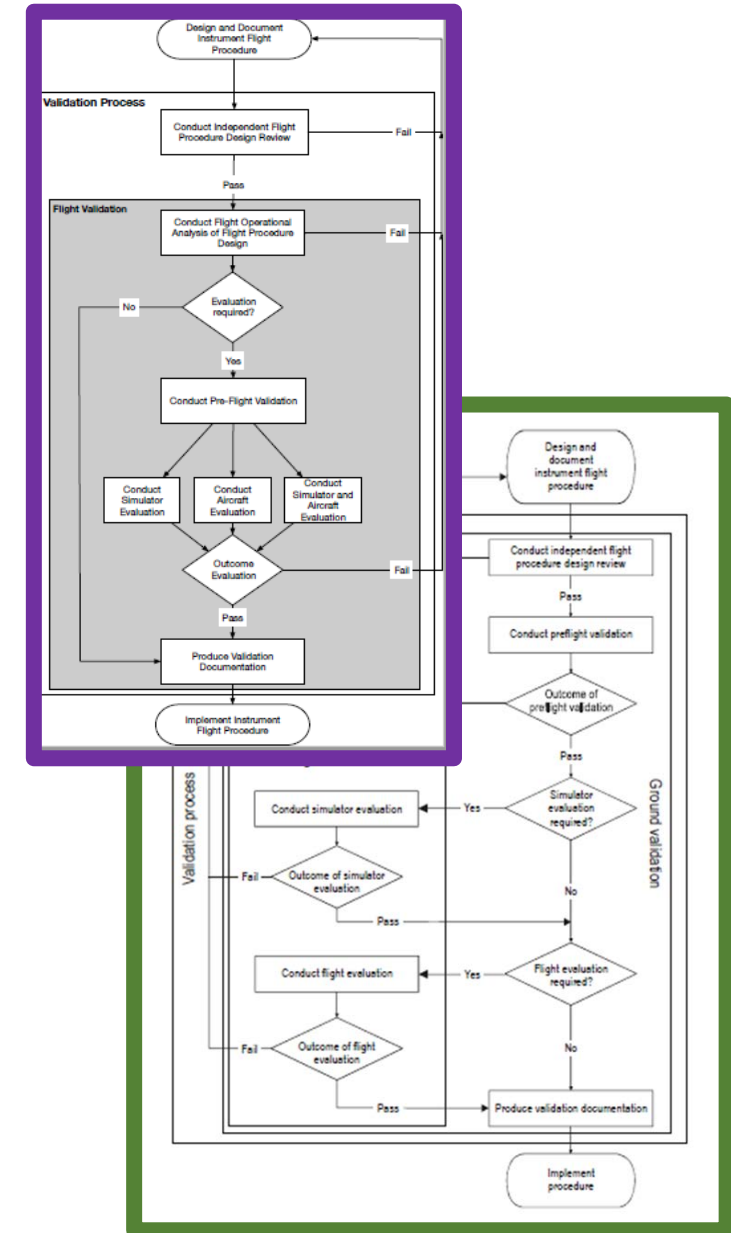


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- IFPP Brainstorming

- 1) Revision of the validation process flowchart to better suit the actual process in a logical way
- 2) Fine tuning of the various steps of the process (no major changes)
- 3) Revision of the chapter about “collected parameters” during the actual validation flight (GNSS vs Conventional)
- 4) Other ideas on the table (future tasks) - ongoing process



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- Way forward

- 1) Creation of an “umbrella” Working Paper to cope with all necessary changes (started/in progress)*
- 2) Monitoring continuously real-world needs (field activities)
- 3) Integrating the changes as needed in other ICAO documents through inter-Panels coordination and *ad hoc* task forces

* The umbrella paper is encompassing all the present tasks of the IFPP. This is a way to have everything in one placeholder for consistency control and easiness of consultation



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Thank you!

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