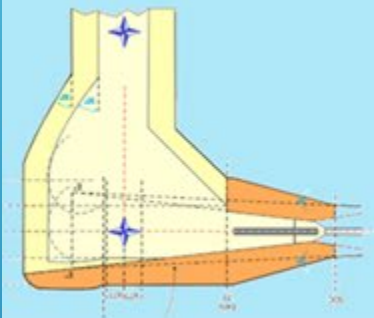


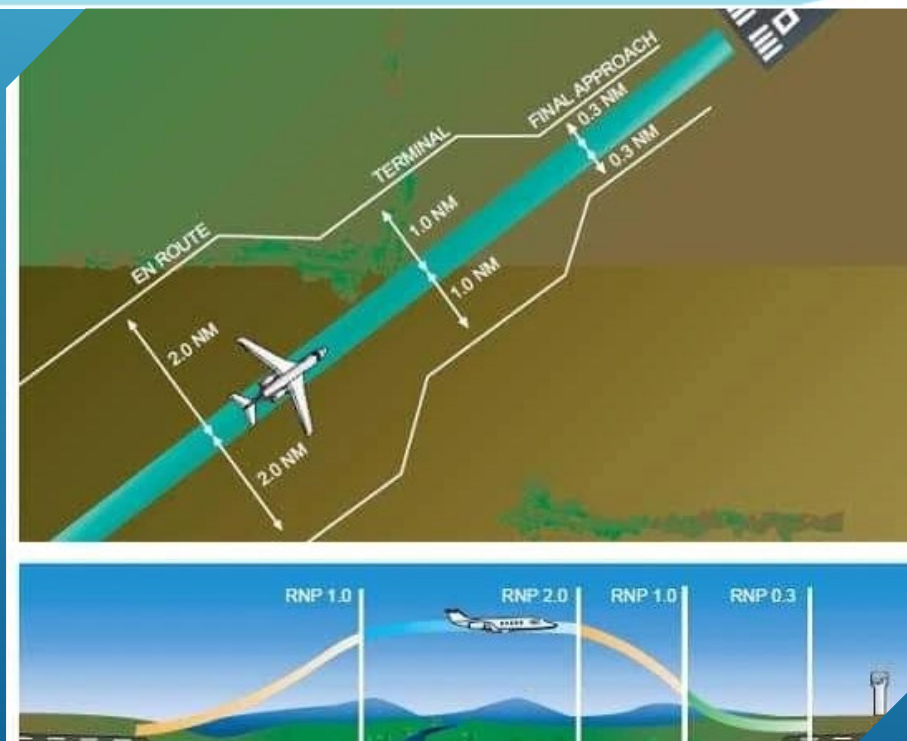


ICAO MID

MID Region Flight Procedure Programme (MID FPP)



FLIGHT PROCEDURE REGULATORY REVIEW PROCESS



Herman
Groenewald

- DOC 9906 - Quality Assurance Manual for Flight Procedure Design — Volume I.

The IFP must be approved by the State or by an authority designated by the State, prior to publication. This approval process must ensure that all the appropriate steps within the IFP process have been completed, documented and signed off by the competent authority

- STEPS

- Receive Request
- Collect all design and ground validation data
- Review the design process
- Review procedure design (Checklists)
- Validate critical segments (Where applicable)
- Review Charting (Checklists)
- Review Documentation / Reports
- Approval recommendation



Documentation Submission

•The designer provides:

Procedure Design Report

(including calculations, charts, and obstacle clearance analysis).

Safety Assessment (hazard identification and mitigation).

Validation Results (flight simulator or ground validation).

Metadata (coordinates, altitudes, fix names, etc.).

Review (ICAO MID FPP)

Compliance Check: verify adherence to ICAO and national standards.

Safety Assessment Review: Ensure risk mitigation measures are adequate.

Airspace Integration: Confirm the procedure fits within controlled airspace and does not conflict with other routes.

Environmental & Operational Considerations: Noise abatement, terrain, and operational feasibility.

Validation

Ground Validation: Confirm charting accuracy and coding for databases.

Flight Validation:

Conducted in an aircraft or simulator to ensure flyability and safety.

Results Submission: Validation reports are reviewed.



Approval

If all checks are satisfactory:

- MID FPP issues **formal recommendation for approval** for the procedure.
- Local Authority / ANSP assigns an **effective date** for publication.

**PROCEDURE VALIDATION CHECKLIST
IAP**

ORKK - KIRKUK ILS AND LOC RWY 13

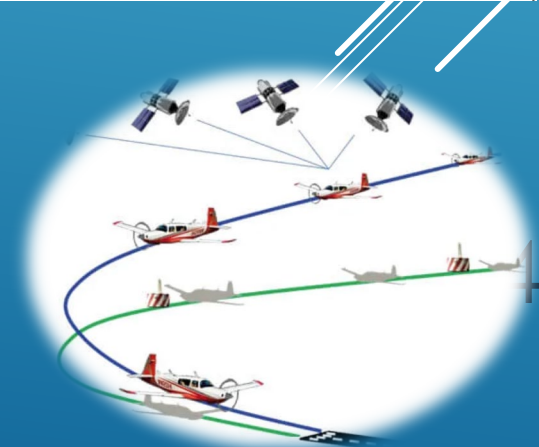
The Validator shall ensure that the design, including all the relevant processes, documentation, data, etc complies with the Regulatory Requirements specified by the CAA. Please note that this checklist is not conclusive and should be used as a guide due to the diversity of procedures and unique operational requirements. The CAA reserves the right, if deemed necessary, to request any additional information or impose additional requirements in order to facilitate the approval and publication of the procedure.

OK - Compliant, OB - Observations, NC - Non Compliance, SC - Safety Concern

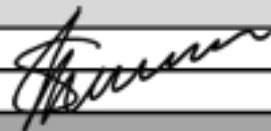
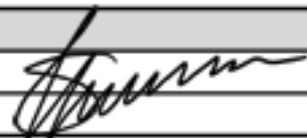
1 GENERAL		OK	OB	NC	SSC
1.1	PROCEDURE INFORMATION				
	Airport Name				
	ICAO Location Indicator				
	Procedure Name				
	Runway Designator				
	Aircraft Categories				
	Navigation Specification				
	Comment: All procedure information provided				
1.2	DESIGN ORGANISATION				
	Organisation				
	Flight Procedure Designer				
	Procedure Verifier				
	Principal Flight Procedure Designer				
	Comment: NIL				
1.3	VALIDATION ORGANISATION				
	Organisation				
	Flight Procedure Designer				
	Procedure Validator				
	Principal Flight Procedure Designer				
	Comment: Validation internal to the design organization. Fully compliant with requirements.				
1.4	DESIGN CONSIDERATIONS, ASSUMPTIONS & SUPPORTING INFORMATION				
	User Consultation/User Requirement Specification (URS)				
	Proof of Consultation				
	Safety Assessment				
	Environmental Considerations & Limitations				
	Noise Considerations & Limitations				
	Airspace Considerations & Constraints				
	CNS Considerations & Limitations				
	CDO Considerations adhered to				
	Other Considerations & Limitations				
	Design Deviations				
	Design Software & Version				
	Comment: GEOTITAN V 6.02.01.00.				

KIRKUK		OK	OB	NC	SSC
2.7	FINAL APPROACH SEGMENT				
	Reference Fix Name/ID	<input checked="" type="checkbox"/>			
	Reference Fix Coordinates	<input checked="" type="checkbox"/>			
	Reference Fix Type	<input checked="" type="checkbox"/>			
	Reference Fix Altitude (FT)	<input checked="" type="checkbox"/>			
	Track (°T)	<input checked="" type="checkbox"/>			
	Magnetic VAR	<input checked="" type="checkbox"/>			
	Track (°M)	<input checked="" type="checkbox"/>			
	Indicated Airspeed (IAS)	<input checked="" type="checkbox"/>			
	ISA (°C)	<input checked="" type="checkbox"/>			
	True Airspeed (TAS)	<input checked="" type="checkbox"/>			
	Turn Angle at Fix	<input checked="" type="checkbox"/>			
	Turn Anticipation Distance (DTA)	<input checked="" type="checkbox"/>			
	Fix Tolerance (ATT/XTT)	<input checked="" type="checkbox"/>			
	Design Segment Length	<input checked="" type="checkbox"/>			
	Total Minimum Stabilisation Distance (MSD)	<input checked="" type="checkbox"/>			
	Track Distance (TRD)	<input checked="" type="checkbox"/>			
	Controlling Obstacle	<input checked="" type="checkbox"/>			
	Obstacle Elevation	<input checked="" type="checkbox"/>			
	Horizontal Tolerance	<input checked="" type="checkbox"/>			
	Vertical Tolerance	<input checked="" type="checkbox"/>			
	Vegetation Tolerance	<input checked="" type="checkbox"/>			
	Total Obstacle Elevation	<input checked="" type="checkbox"/>			
	Primary/Secondary Area Location	<input checked="" type="checkbox"/>			
	MOC	<input checked="" type="checkbox"/>			
	MOCA	<input checked="" type="checkbox"/>			
	OCA (m)	<input checked="" type="checkbox"/>			
	OCA (FT)	<input checked="" type="checkbox"/>			
	Published OCA (FT)	<input checked="" type="checkbox"/>			
	Published OCH (FT)	<input checked="" type="checkbox"/>			
	Calculated Descend Gradient (%)	<input checked="" type="checkbox"/>			
	Calculated Descend Angle (°)	<input checked="" type="checkbox"/>			
	Comment: Fully compliant				
2.8	VSS PARAMETERS				
	Vertical Path Angle (VPA)	<input checked="" type="checkbox"/>			
	Angle of VSS (αVSS)	<input checked="" type="checkbox"/>			
	Runway Code	<input checked="" type="checkbox"/>			
	Inner APCH Surface Width	<input checked="" type="checkbox"/>			
	Splay (%)	<input checked="" type="checkbox"/>			
	Splay (°)	<input checked="" type="checkbox"/>			
	OCA (NPA)	<input checked="" type="checkbox"/>			
	Threshold Elevation	<input checked="" type="checkbox"/>			

2.11 MISSED APPROACH SEGMENT:		OK	OB	NC	SSC
2.11.1	Initial Missed Approach Segment (MAPT - SOC)				
	Reference Fix Name/ID	<input checked="" type="checkbox"/>			
	Reference Fix Coordinates	<input checked="" type="checkbox"/>			
	Reference Fix Type	<input checked="" type="checkbox"/>			
	Reference Fix Altitude (FT)	<input checked="" type="checkbox"/>			
	Indicated Airspeed (IAS)	<input checked="" type="checkbox"/>			
	ISA (°C)	<input checked="" type="checkbox"/>			
	True Airspeed (TAS)	<input checked="" type="checkbox"/>			
	Tailwind Component	<input checked="" type="checkbox"/>			
	True Airspeed (Total)	<input checked="" type="checkbox"/>			
	Segment Track (°T)	<input checked="" type="checkbox"/>			
	Magnetic VAR	<input checked="" type="checkbox"/>			
	Segment Track (°M)	<input checked="" type="checkbox"/>			
	MAPT ATT	<input checked="" type="checkbox"/>			
	MAPT - SOC Distance	<input checked="" type="checkbox"/>			
	Area Construction	<input checked="" type="checkbox"/>			
	Controlling Obstacle	<input checked="" type="checkbox"/>			
	Obstacle Elevation	<input checked="" type="checkbox"/>			
	Horizontal Tolerance	<input checked="" type="checkbox"/>			
	Vertical Tolerance	<input checked="" type="checkbox"/>			
	Vegetation Tolerance	<input checked="" type="checkbox"/>			
	Total Obstacle Elevation	<input checked="" type="checkbox"/>			
	Primary/Secondary Area Location	<input checked="" type="checkbox"/>			
	MOC	<input checked="" type="checkbox"/>			
	MOCA	<input checked="" type="checkbox"/>			
	OCA (m)	<input checked="" type="checkbox"/>			
	OCA (FT)	<input checked="" type="checkbox"/>			
	Published OCA (FT)	<input checked="" type="checkbox"/>			
	Published OCH (FT)	<input checked="" type="checkbox"/>			





4	SUPPLEMENTARY ITEMS			
4.1	ADDITIONAL ITEMS NOT SPECIFIED ABOVE	OK	OB	
	<u>Comment:</u> NIL			
5	REGULATORY COMPLIANCE			
5.1	PDP COMPLETE AND COMPLIES WITH SPECIFIED REQUIREMENTS	OK	OB	NC
	MOPs	<input type="checkbox"/>		
	CARs & CATs	<input type="checkbox"/>		
	<u>Comment:</u> Evaluated against ICAO SARPS and not Regulatory requirements as there are NIL published.			
6	INDEPENDENT VALIDATOR REMARKS (ICAO MID)			
6.1	RECOMMENDATIONS			
	ILS complies with the design requirements of ICAO DOC 8168 VOL II and the quality requirements of ICAO DOC 9906 VOL I			
6.2	VALIDATOR SIGNATURE (Electronic submissions will be regarded as official signature)			
	Name: Herman Groenewald			
	Date: 1 May 2025			
7	INDEPENDENT VALIDATOR (ICAO MID)			
7.1	RECOMMENDATIONS			
	Recommended for Publication			
7.2	CAA VALIDATOR SIGNATURE			
	Name: Herman Groenewald			
	Date: 1 May 2025			



Any Question ?

