

	Company Name የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY	Document No. ECAA/ANR/W1/007/008	
Document Title: Checklist for PANS/OPS Inspector		Issue No. 1	Page No. Page 1 of 21

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	Company Name <p style="text-align: center;">የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY</p>	Document No. <p style="text-align: center;">ECAA/ANR/W1/007/008</p>	
Document Title: <p style="text-align: center;">Checklist for PANS/OPS Inspector</p>		Issue No. <p style="text-align: center;">1</p>	Page No. <p style="text-align: center;">Page 2 of 21</p>

APPROVAL PAGE

This Check list for PANS OPS Inspector has been prepared by Air Navigation Regulation Directorate to assist the effort of the Ethiopian Civil Aviation Authority to maintain the provision of effective Air Navigation Services with in Ethiopia airspace.

It is important to note that the Check list for PANS OPS Inspector improves the safety of Air Navigation Services in Ethiopia.

The Director General of Ethiopian Civil Aviation Authority has here by approved the Check list for PANS OPS Inspector on June, 2016 to be used as guidance to PANS OPS Inspector.

Approved by
Wosenyetch Hunegnaw
Wosenyetch Hunegnaw (Col.)
 Date June, 2016 **Director General**



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No.	QUESTIONS TO BE ANSWERED	REFERENCE DOCUMENT	STATUS OF IMPLEMENTATION	REMARK And reference documents
1	Does PANS-OPS service provider retain all procedures design documentation so as to allow any data anomalies or errors found during the production, maintenance or operational use of the procedure to be corrected?	PANS Doc 8168 Vol. II Part I Section 2 Chapter 4, 4.5.2	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
2	Has CAA establish criteria as a basis for procedure design in accordance with ICAO PANS-OPS provisions?	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
3	Are all the functions and responsibilities of the PANS -OPS staff adequately and technically defined?	GM Doc 9734 Part A	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
4	Has CAA established the minimum Qualification and experience for PANS-OPS technical staff?	GM Doc 9734 Part A 3.5	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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5	Does CAA employ a sufficient number of qualified PANS-OPS technical staff to carry out its flight instrument procedure design?	GM Doc 9734 Part A 3.4	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
6	Does CAA develop a periodic training program and plan detailing and prioritizing what Training will be provided with in the established time?	GM Doc. 9734 PART A 3.5	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
7	Is the training program appropriately Implemented for PANS-OPS technical staff?	GM Doc 9734 PART A 3.5	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
8	Has CAA established general criteria and developed adequate procedures for the establishment of aerodrome operating	PANS DOC 8168 OPS VOL II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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NO	QUESTIONS TO BE ANSWERED	EVIDENCE TO BE REVIEWED	STATUS OF IMPLEMENTATION	REMARK
	minima? E.g. MDA/H,DA/H for instrument approaches .			
9	Has CAA published obstacle clearance altitude/height (OCA/H)?	PANS DOC 8168 OPS VOL II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
10	Does CAA carry out ground and flight validation of instrument flight procedures, including obstacle checks?	PANS DOC 8168 OPS VOL II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
11	Does CAA develop flight procedures in accordance with PANS OPS criteria promulgated by the state?	PANS DOC 8168 OPS VOL II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
12	Does CAA review PANS OPS published procedure periodically to ensure that they continue to comply with changing criteria and meet user requirements?	PANS DOC 8168 OPS VOL II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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13	Has CAA established minimum qualification requirements for procedure specialists who are responsible for Design of flight procedures?	GM Doc. 9734 PART A 3.7	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
14	Check office facility (rules, calculator, protractor, compass, flexible curves, adjustable, table ...)	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
15	Check Pre calculated template and tables of dimension for the procedures to be designed.	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
16	Is there Necessary maps with scales appropriate to the procedure segment being designed	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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	1:1,000,000 1:250,000 1:50,000 1:25,000 1:10,000			
B.	Manuals Check Does the PANS OPS unit have applicable ICAO documents either in hard copy/soft copy: e.g. the following doc,		<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
17	1) Doc. 8168 OPS/611 procedure for air navigation services aircraft OPN(PANS-OPS)	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
18	2) Doc. 9368 Instrument flight procedures constriction manuals	PANS Doc 8168 OPS	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory	

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		/611 Vo. II	<input type="checkbox"/> Not applicable	
19	3) Doc. 9371 AN/912 template manual for holding, reversal and racetrack Procedures.	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
20	4) Ethiopian Civil Aviation Instrument flight procedures constriction Manuals.	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
21	5) Annex 14 6) Doc. 9274 AN/904 use of the CRM for ZLS OPN	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
22	7) Doc. 4444 air traffic management (PANS-ATM)	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
23	8) Doc. 7030 Regional supplementary procedures (Supps)	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
24	9) Doc. 8400 ICAO abbreviations and	PANS Doc	<input type="checkbox"/> Satisfactory	

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	codes (PANS-ABC)	8168 OPS /611 Vo. II	<input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
C	Documentation on instrument procedure design 1) Aerodrome Data 2) Minimum Sector Altitude	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
25	3) Holding pattern 4) Non-precision Approach 5) ILS Approach 6) Instrument departure procedure 7) Instrument Arrival procedure 8) RNAV GNSS Approach procedure	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
D. 26	Evaluation Construction of procedure design processes I. MSA 1 map scale used 2 Sectorization summary 3 Obstacle survey 4 MOC applied on high pick for each sector 5. Vegetation used	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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	6. MSA			
27	II. Holding Pattern			
	1 Aerodrome altitude 2 Aircraft categories 3 IAS/TAS used 4 Outbound time 5 Radius of turn 6 Wind applied 7 Wind effect / Inbound magnetic track	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
	9 Magnetic variation 10 Maximum temperature 11 MOC applied 12 The design of holding compared with the above parameters 13 Minimum obstacle clearance altitude 14 Minimum holding altitude 15 Construction of over head facility		<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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	tolerance 16 Construction of Omni directional entry area 17 Construction of secondary area for the holding airspace 18 Identity and analyze obstacles in primary and secondary area to determine the minimum holding altitude. 19 Construction of basic area			
28	Non-Precision Approach (VOR/DME) 1 Check maps scale used 2 Holding fix 3 IAS/TAS used 4 Outbound time (distance) 5 Wind Out bound magnetic track 6 Out bound magnetic track 8 Entry from holding patter 9MOC applied 10Obstacle survey (critical obstacle) 11All the calculation compared with the above parameters 12. All the design compared with the result of the calculation	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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	13. Minimum race track/reversal altitude 14. Procedure altitude] 15. The descent gradient 16. Protection areas 17. Construction of basic area to a base turn 18. Construction of entry area 19. Construction of secondary area for the base turn 20. Identify and analyze obstacles in primary and secondary area to determine the Identify and analyze obstacles in primary and secondary area to determine the minimum reversal altitude.			
29	IV. Intermediate Approach Segment 1. Segment orientation 2 Track 3 Beginning of the segment 4 End of segment 5 MOC applied	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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	6 Nominal length of the segment 7 Vegetation 8 Obstacle survey (critical obstacles) 9 slop intermediate			
30	V. Final Approach Segment 1 Map Scale 2 protection areas Critical obstacle MOC Vegetation Descent gradient			
31	VI. Missed Approach Segment			
	. 1 Map scale used 2 Start of missed approach point 3 Missed approach turn 4 Aerodrome evaluation 5 K 6 IAS/TAS 7 Temperature 8 Check calculation of pilot reaction Bank angle	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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	10. Check calculation of (3s+3s) C and transition tolerance 11 Check calculation of radius of turn 12 Check calculation of wind effect 13 Check obstacles around 14 Check outbound heading 15 Check expecting altitude at different point 16. Check required altitude at different point 17. Check text associated to missed approach profile 18. Check OCA/H			
32	VII. Visual Circling 1 Map scale used 2 Category of air craft included 3 Check computation of radius 4 Obstacle survey (critical obstacle) 5. MOC applied for each category of aircraft 6. Visual circling OCA/H for each category of aircraft 7. Map scale used	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
33	VIII. ILS Approach Procedure			

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<p>1 Map scale used</p> <p>2 Aerodrome elevation</p> <p>3 RWY magnetic bearing</p> <p>4 Magnetic variation</p> <p>5 Aircraft category</p> <p>6 ILS reference datum height (RDH)</p> <p>GP angle</p> <p>7 Distance THR-LLZ</p> <p>8 Existing facilities</p> <p>9 Basic ILS surface</p> <p>10 Parameters for construction</p> <p>-Obstacle surrounding</p> <p>-Surface elevation</p> <p>-Vegetation</p> <p>-Basic ILS surface obstacle</p> <p>-survey calculation</p> <p>-Check the design units the</p> <p>.11 Obstacle assessment surface (OAS)</p> <ul style="list-style-type: none"> • Parameters for construction • OAS template coordinates • Obstacle survey • OAS surface equation 	<p>PANS Doc</p> <p>8168 OPS</p> <p>/611 Vo. II</p>	<p><input type="checkbox"/> Satisfactory</p> <p><input type="checkbox"/> Not satisfactory</p> <p><input type="checkbox"/> Not applicable</p> <p><input type="checkbox"/> Satisfactory</p> <p><input type="checkbox"/> Not satisfactory</p> <p><input type="checkbox"/> Not applicable</p>
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	<ul style="list-style-type: none"> • OAS obstacle survey calculation • OCA/H for each category of aircraft 			
34	IX. RNAV(GNSS) Approach			
	1. Y-bar or U-bar concept used 2. Maximum course change used	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
35	X. Terminal Arrival Altitudes			
	1. Map scale used 2. Calculation of 25 NM 15 NM buffer zone 3. MOC used 4. Vegetation 5. Obstacle survey 6. TAA area orientation 7. Terminal arrival altitude	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
36	XI Initial Approach Segment (for each TAA area)			

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	1 Map scale 2 Obstacle survey (highest obstacle) 3 MOC 4 Vegetation 5 Minimum obstacle clearance altitude 6 Parameters A. IAF name B. Geo Coordinate C. IAS D. Magnetic track E. TAA F. Procedure altitude G. Descent required (altitude) H. Minimum length required I. Segment length J. TRD K. Descent gradient	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	ANASM-11 ANASM-04
37	XII. Intermediate Approach Segment			

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	1. Parameters a. Map scale used b. IF name c. Geo coordinate d. IAS e. Magnetic track f. Procedure altitude g. Altitude at FAF h. Descent required (altitude) i. Minimum length required j. TRD k. Descent gradient 1. Obstacle survey (highest obstacle) 2. MOC applied 3. Vegetation 4. Minimum obstacle clearance altitude	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
38	XIII. Final Approach Segment			

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	1. Map scale used 2. Parameters a. FAF name b Geo coordinate c IAS d Magnetic track e Procedure altitude f Minimum required length h Segment length I TRD J Descent gradient 3 MOC applied 4 Vegetation 5 OCA/H	PANS Doc 8168 OPS /611 Vo. II	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
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NO	QUESTIONS TO BE ANSWERED	REFERENCE DOCUMENT	STATUS OF IMPLEMENTATION	REMARK
1	Does CAA develop job description for its cartographic technical staff?	GM DOC 9734 PART A 3.4&3.7	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
2	Does CAA develop a formal training program for cartographic technical staff?	GM Doc 9734 Part A	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
3	Does CAA maintain training records for cartographic technical staff?	GM DOC 9734 PART A	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
4	Does CAA made readily available aeronautical charts to users?	STD A4 1.3.2	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
5	Has the State established a mechanism to ensure that aeronautical data quality	STD A4 2.17 & App. 6, Tables 1 to	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory	

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	requirements related to the data integrity and charting resolution are in accordance with the provisions of Tables 1 to 6 in Appendix 6 of Annex 4?		<input type="checkbox"/> Not applicable	
6	Has CAA made available the aeronautical charts in comprehensive , accurate, readable and that they are maintained up to date in accordance with ICAO formats?	STD A4 1.3.3	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	
7	Has CAA made available to users all charts which are applicable in the State?	STD & RPA4 1.3.2.2,16.2.2,3.2,6.2,7.2 8.2,9.2,10.2,11.2,12.2,13.2, 14.2,15.2,16.2,17.2,18.2 19.2&21.2	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not satisfactory <input type="checkbox"/> Not applicable	

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