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CHECK LIST FOR COMMUNICATION, NAVIGATION AND SURVEILLANCE INSPECTOR



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APPROVAL PAGE

This Checklist for CNS 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 Checklist for CNS Inspector improves the safety of Civil Aviation Operation in Ethiopia.

The Director General of the Ethiopian Civil Aviation Authority has here by approved the Checklist for CNS Inspector on June 2016 to be used as guidance to Communication, Navigation and Surveillance Inspector.

Approved by ..

Woserveten Hunegnew (Col.)
Director General

Date June 2016

PLEASE MAKE SURE THAT THIS IS THE CORRECT ISSUE BEFORE USE

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Requirement - CNS Equipment Performance Condition				
Reference - ECARAS Part 16 and Equipment Operational and t	technical manual			
Equipment type Frequer	ncy Equipn	nent Location		
ID Power output				
Checklist Questions	Compliance verified	Evidence and/or Observations		
1. Do both Main and SD/BY transmitters Operational?	Yes 🗆 No 🗆			
2. Check transmitter nominal output power Accuracy As the equipment Manufacturer specifications	Satisfactory \Box not satisfactory \Box			
3. Availability of dual monitor system for controlling an incorrect signal or any deviation from nominal value.	Yes No			
4. If dual do they indicate the parameters with equal indication or as minimum difference as possible within the tolerance of ICAO Annex 10 and the equipment Manufacturer specifications?	Yes □ No □			
5. Is there any Monitor warning or Alarm? if any, which parameter?)	Yes No			
6. Does the automatic transfer/shutdown system show alarm when critical parameters Alarming?	Yes No			
Recommendations :-				

	^{Company Name} የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY	Document No. ECAA/A	ANR/CL/009
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Requirement - CNS Equipment Performance Condition					
Reference - ECARAS Part 16 and Equipment Operational and technical manual					
Checklist Questions	Compliance ve	rified	Evidence and/or Observations		
 7. Does CNS service provider Check correct radiation of Transmitters with appropriate test instrument? Observe the checking process indications are actual 	Satisfactory not satisfactory				
8. Does the CNS service provider have a scheduled field check or ground check done?Review the recorded data.	Satisfactory not satisfactory				
9. Is there standby power system generator or battery?	Satisfactory not satisfactory				
 10.Check weather the equipment operation holds during battery supply as specified by equipment manufacturer Put off main power supply and check the equipment if it works with battery and for how long it works? 	Satisfactory not satisfactory				
11. Is the parameter status indicators indicating Normal reading on (Both Transmitters)?	Satisfactory not Satisfactory				
12. Check Availability of operational and technical manual with complete circuit diagrams	Satisfactory not satisfactory				
Recommendations :-					

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Requirement - CNS Equipment Performance Condition						
Reference - ECARAS Part 16 and Equipment Operational and technical manual						
Checklist Questions	Compliance ver	ified	Evidence and/or Observations			
13. Check the availability of spare parts/modules for the Equipment.	Satisfactory not Satisfactory					
14.Check the availability of proper test instrument as well as their serviceability:- • Oscilloscope • frequency counter • Wattmeter • signal generators • spectrum analyzer	Satisfactory not satisfactory					
 15. Does the CNS service provider conduct calibration for test instrument? Periodic calibration Check records 	Satisfactory not Satisfactory					
16. Does Navigational Aid Equipment remote control and monitoring system parameter status indicator operational?	Satisfactory not Satisfactory					
Recommendations :-						

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Requirement - CNS Equipment Performance Condition					
Reference - ECARAS Part 16 and Equipment Operational and technical manual					
Checklist Questions	Compliance ver	rified	Evidence and/or Observations		
17. Check the periodical calibration records of test instruments of AFIS.	Satisfactory not Satisfactory				
 18. Does the CNS Service provider has a periodic flight calibration /inspection report? • Check the regularity of flight inspection • Verify the flight inspection report 	Satisfactory not satisfactory				
19.Does the CNS service provider apply safety regulation during any preventive /corrective activities. Check for the use ESD					
20.Check the availability of proper maintenance tools.	Satisfactory not Satisfactory				
21. Check the routine logbook records and/or Preventive / corrective maintenance performance reports.	Satisfactory not Satisfactory				
Recommendations :-					

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Requirement - CNS Equipment Performance Condition					
Reference - ECARAS Part 16 and Equipment Operational and techn	ical manual				
Equipment type Frequency	Equipment Lo	ocation			
ID Power output Channel					
Checklist Questions	Compliance verified	Evidence and/or Observations			
1. Do both Main and SD/BY Transponders Operational?	Yes 🗆 No 🗆				
2. Check transmitter nominal output power Accuracy As the equipment Manufacturer specifications	Satisfactory \square not satisfactory \square				
3. Availability of dual monitor system for controlling an incorrect signal or any deviation from nominal value.	Yes 🗆 No 🗆				
4. If dual do they indicate the parameters with equal indication or as minimum difference as possible within the tolerance of ICAO Annex 10 and the equipment Manufacturer specifications?	Yes No				
5. Is there any Monitor warning or Alarm? if any, which parameter?)	Yes 🗆 No 🗆				
6. Does the automatic transfer/shutdown system show alarm when critical parameters Alarming?	Yes No				
Recommendations :-					

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Requirement - CNS Equipment Performance Condition Reference - ECARAS Part 16 and Equipment Operational and technical manual			
Checklist Questions	Compliance verified	Evidence and/or Observations	
7. Is there standby power system generator or battery?	Yes 🗆 No 🗆		
 8.Check weather the equipment operation holds during battery supply as specified by equipment manufacturer Put off main power supply and check the equipment if it works with battery and for how long it works? 	Satisfactory \square not satisfactory \square		
9. Is the parameter status indicators indicating Normal reading on (Both Transmitters)?	Yes □ No □		
10. Check Availability of operational and technical manual with complete circuit diagrams	Satisfactory \Box not satisfactory \Box		
Recommendations :-			

	^{Company Name} የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY	Document No. ECAA/A	ANR/CL/009
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Requirement - CNS Equipment Performance Condition				
Reference - ECARAS Part 16 and Equipment Operational and technical manual				
Checklist Questions	Compliance verified	Evidence and/or Observations		
11. Check the availability of spare parts/modules for the Equipment.	Satisfactory \square not Satisfactory \square			
12. Does Navigational Aid Equipment remote control				
and monitoring system parameter status indicator	Yes \square No \square			
operational?				
13. Does the CNS service provider apply safety				
regulation during any preventive /corrective	Yes \square No \square			
activities . Check for the use ESD				
14. Check the availability of proper maintenance tools.	Satisfactory \square not Satisfactory \square			
15. Check the routine logbook records and/or				
Preventive / corrective maintenance performance reports.				
Recommendations :-				

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Requirement: The CNS service provider shall develop an overa	all training plan and	program for its staff. (Manual of
Training Programme for CNS personnel)		
Reference Manual ECAA/ANRD/OP/001, Chapter 4,4.1.3 & Inspecto	rs' Handbook,9.4)	
Checklist Questions	Compliance verified	Evidence and/or Observations
1. Does the CNS service provider develop training program for CNS staff.	Yes \square No \square	
2. Is the training program approved by the air navigation regulation directorate?	Yes \square No \square	
3. Does the training program indicate initial, recurrent and specialized training?	Yes No	
Recommendations :-		

	Company Name የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY	Document No. ECAA/A	ANR/CL/009
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Requirement: - The CNS service provider shall maintain individual training records for each technical staff.			
(Doc 9734 part A,3.7, Manual ECAA/ANRD/OP/001, Chapter 4,4.1.3 & Inspectors' Handbook,9.4)			
Checklist Questions	Compliance verified	Evidence and/or Observations	
1. Does the CNS service provider keep the training records of its staff?	Yes 🗆 No 🗆		
2. Does the training record indicate certificate awarded, duration and name of institute?	Yes 🗆 No 🗆		
3. Has the CNS service provider established a method for maintaining individual training records in hard copy or soft copy?	Yes □ No □		
4. Does the CNS service provider Develop Job description for its staff?	Yes \(\sigma \) No \(\sigma \)		
5. Is the Job description approved by the HRM and submitted to air navigation regulation directorate?	Yes 🗆 No 🗀		
Recommendations :-			

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Requirement: COMMUNICATION FACILITIES: (VHF air to ground Voice Communication Systems)			
Checklist Questions	Compliance verified	Evidence and/or Observations	
A. Availability and Serviceability status of 118.1MHZ main Aerodrome Frequency	Yes No		
B. Availability and Serviceability status of 118.1MHZ standby Aerodrome Frequency	Yes 🗆 No 🗆		
C. Availability and Serviceability status of 121.9 MHZ main GMC Frequency	Yes No		
D Availability and Serviceability status of 121.9 MHZ standby GMC Frequency	Yes 🗆 No 🗆		
Recommendations :-	1		

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Checklist Questions	Compliance verified	Evidence and/or Observations
A. Availability and Serviceability status of Mekele 125.2 MHZ main	Yes 🗆 No 🗆	
B. Availability and Serviceability status of Mekele 125.2 MHZ standby	Yes \square No \square	
C. Availability and Serviceability status of Dire Dawa 125.2 MHZ main	Yes No	
D Availability and Serviceability status of Dire Dawa	Yes No	
125.2 MHZ standby Recommendations :-		

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Requirement: VSAT/ADS-B Communication Systems		
Checklist Questions	Compliance verified	Evidence and/or Observations
A. Availability and Serviceability status of Gode 125.2 MHZ main	Yes□ No□	
B. Availability and Serviceability status of Gode 125.2 MHZ standby	Yes No	
C. Availability and Serviceability status of Gore 125.1 MHZ main	Yes□ No□	
D. Availability and Serviceability status of Gore 125.1 MHZ standby	Yes□ No□	
E. Availability and Serviceability status of Arbaminch 125.1 MHZ main	Yes No	
F. Availability and Serviceability status of Arbaminch 125.1 MHZ standby	Yes 🗆 No 🗀	
Recommendations :-		

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Checklist Questions	Compliance verified	Evidence and/or Observations
A. Availability and Serviceability status of Gawassa 125.1 MHZ main	Yes 🗆 No 🗆	
B. Availability and Serviceability status of Gawassa 125.1 MHZ standby	Yes 🗆 No 🗆	
C. Availability and Serviceability status of Gawassa 119.7 MHZ main Approach Frequency	Yes □ No □	
D. Availability and Serviceability status of Gawassa 119.7 MHZ standby Approach Frequency	Yes 🗆 No 🗆	
Recommendations :-		

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Requirement: VHF air to ground Voice Communication Systems			
Compliance verified	Evidence and/or Observations		
Yes No			
Yes 🗆 No 🗀			
	Compliance verified Yes \(\simeq No \simeq \)		

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Requirement: Voice switching and control systems			
Checklist Questions	Compliance verified	Evidence and/or Observations	
A. Serviceability status	Yes 🗆 No 🗀		
B. Remote status monitors	Yes No		
C. Standby system	Yes 🗆 No 🗀		
D. Standby power supplies	Yes □ No □		

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Requirement: - Voice and Data recording systems				
Checklist Questions	Compliance verified	Evidence and/or Observations		
A Does the Voice and Data recording system status Replay from Long-term storage and copying to portable media.	Yes 🗆 No 🗀			
B. Does Surveillance recording and storage system provide a means of identifying and retrieving records from long-term storage at any time during the minimum storage period of 90 days?	Yes 🗆 No 🗀			
C. Is there a Standby Voice and Data recording equipment?	Yes 🗆 No 🗀			
Recommendations :-				

	Company Name የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY	Document No. ECAA/A	ANR/CL/009
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Compliance verified	Evidence and/or Observations
Yes □ No □	
Yes 🗆 No 🗀	
Yes □ No □	
	Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □

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Checklist Questions	Compliance verified	Evidence and/or Observations
A. Availability of Extension telephone	Yes 🗆 No 🗀	
B. Serviceability of Extension telephone	Yes □ No □	
C. Availability of Intercom	Yes 🗆 No 🗀	
D. Serviceability of Intercom	Yes □ No □	

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Requirement: UPS (Standby Power)			
Checklist Questions	Compliance verified	Evidence and/or Observations	
A Availability of UPS	Yes□ No□		
B. Serviceability status of UPS	Yes□ No□		
Recommendations :-			

	^{Company Name} የኢትዮጵያ ሲቪል አቪዬሽን ባለሥልጣን ETHIOPIAN CIVIL AVIATION AUTHORITY	Document No. ECAA/A	ANR/CL/009
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Checklist Questions	Compliance verified	Evidence and/or Observations	
• on TWR radio Equipment	Yes□ No□		
On TWR consoles	Yes□ No□		
• on TWR computers/servers	Yes□ No□		
on ACC/FIC radio Equipment	Yes□ No□		
• on ACC/FIC consoles.	Yes□ No□		
on ACC/FIC computers/servers	Yes□ No□		
on Equ.Room radio Equipment	Yes□ No□		
on Equ.Room consoles	Yes□ No□		
on AMSS radio Equipment	Yes \(\simeta \) No \(\simeta \)		
• on AMSS consoles/racks	Yes \(\simeta \) No \(\simeta \)		
• on computers/servers	Yes \(\simeta \) No \(\simeta \)		
 on Voice/Data tape records 	Yes□ No□		