

ECAA/CNS/WI/027

ETHIOPIAN  
CIVIL AVIATION  
AUTHORITY



## **Coordination Procedures between Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS)**

**October 2016**

**Communication, Navigation and Surveillance Engineering (CNS)**

	<p>Company Name</p> <p><b>የኢትዮጵያ ሲቪል ላይን ዲፕሎማሲ ተቋም</b>  <b>ETHIOPIAN CIVIL AVIATION AUTHORITY</b></p>	<p>Document No.</p> <p>ECAA/CNS/WI/027</p>	
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Coordination Procedures Between Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS)

October 2016

**APPROVAL PAGE**

This Coordination Procedures Between Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS) has been prepared by Communication, Navigation and Surveillance Engineering Directorate to assist the effort of the Ethiopian Civil Aviation Authority to maintain the provision of effective Air Navigation Service with in Ethiopia airspace.

It is important to note that this Coordination Procedures Between Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS), improve the safety of Air Navigation Services in Ethiopia.

The Director of the Air Navigation Regulation has here by approved this Coordination Procedures Between Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS), October 2016 to be used as guidance to Communication, Navigation and Surveillance Engineering Directorate.

Approved by: - Lulseged Gulilat

Date: October 2016 Director, Air Navigation Regulation



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<b>AMENDMENT</b>		
<b>NO</b>	<b>Date</b>	<b>Description</b>
1	October 2016	New QMS Numbering

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PLEASE MAKE SURE THAT THIS IS THE CORRECT ISSUE BEFORE USE

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## 1. Preamble

Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS) which forms parts of the Air Navigations Deputy Director General of the Ethiopian Civil Aviation Authority agree that the procedures contained in this document shall remain enforce from the effective date specified until either amended or cancelled.

## 2. Effective Date

The provisions in this document shall be implemented on Oct 2016.

## 3. Objective

The purpose of this document is to specify and establish the coordination procedures between Communication, Navigation and Surveillance Engineering (CNS) and Air Traffic Service (ATS) according to the ICAO standards and recommended practices.

## 4. Scope

This procedure contained herein is supplementary to the ICAO standards and recommended practices in Annex-10 and Annex 11 regarding the need of coordination between CNS and ATS units concerned to ensure the provision air traffic services and safe operations of flights within Ethiopian air space.

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## **5. Responsibilities of CNS**

- 5.1 Study operational aspects of all CNS Equipment and determine the mean time between failures (MTBF) as well as mean time to repair (MTTR) to ensure the reliability and sustainability of the CNS service provision.
- 5.2 Inspect, monitor and control the reliability and availability of CNS facilities to ensure safe air traffic service.
- 5.3 Ensure availability of spare parts for all CNS equipment to improve availability and efficiency of CNS facilities.
- 5.4 Conduct preventive maintenance of all CNS Equipment for operation sustainability.
- 5.5 Conduct scheduled and non-scheduled maintenance of all CNS facilities.
- 5.6 Ensure the redundancy of all CNS facilities.
- 5.7 Take quick measures up on failure and provide alternatives.
- 5.8 Announce/report failures to ATS and/or other parties for precaution.
- 5.9 Provide CNS service on 24 hours bases

## **6. Responsibilities of ATS**

- 6.1 Verify the functionality of CNS facilities from operators report.
- 6.2 Report failures on time.
- 6.3 Log down the status of CNS facilities.
- 6.4 Use CNS facilities properly.
- 6.5 Assist in need of emergency situations and provide with necessary information as required.

## **7. Fault Report And Maintenance Procedures**

- 7.1 Receiving failure report from the appropriate ATS units or from Controlling and Monitoring System.
- 7.2 Recognize the existence of failure.
- 7.3 Check for the status of the standby, if it is working go through step 7.4 to 7.6 for the main system maintenance, if not go through step 7.7 to 7.10.
- 7.4 Review/Check if there is a previous recorded report of the system on the log book.

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- 7.5 Fix the problem.
- 7.6 Put the system back to the service and report to the appropriate ATS unit.
- 7.7 Issue a NOTAM, if considered necessary.
- 7.8 Perform quick corrective maintenance and check its proper functionality.
- 7.9 Put the system back to the service and report to the appropriate ATS unit.
- 7.10 Cancel the NOTAM.

## **8. The Mode of Communication Required**

Because of the nature and the importance of CNS facilities, there should be a direct and reliable means of communication exist between CNS and ATS personnel.

- i) ATS and CNS uses the following means of communication for information exchange between each other.
  - a) Intercom
  - b) Direct telephone
  - c) Extension Telephone
  - d) Radio channel

## **9. Deviation**

Departure from the procedures specified in this coordination procedure shall not be permitted without prior coordination on a case by case basis between the two units only in exceptional circumstances.

Any deviation from these provision that arise due to emergency or are applied to ensure the safety of air traffic, shall immediately be notified to the other Authority concerned and shall be transmitted as the circumstances that caused the deviation case to exist.

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**AUTHORIZED SIGNATORIES**

FOR Communication, Navigation and Surveillance Engineering (CNS)



Name:-Ghirmai Hailu

**Director, CNS Engineering**

Place :- Addis Ababa

Date:- 11 October 2016



For Air traffic service (ATS)



Name:-Buzuayehu Assefa

**Director, Air Traffic Services**

Place :- Addis Ababa

Date:- 11 October 2016