



TS TENTATIVE SAFETY OVERSIGHT AUDIT/INSPECTION 2018-19

PLAN

VERSION : 2.0
DATE OF IMPLEMENTATION : 01-07-2018
OFFICE OF PRIME INTEREST : TECHNICAL STANDARDS BRANCH, AAR DIRECTORATE

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TYPE OF DOCUMENT	PLAN (PLN)		
STATUS OF DOCUMENT	CONTROLLED		

1. **PURPOSE:**

- 1.1 The purpose of this Safety Oversight Inspection Plan is to:
 - 1.1.1 Ensure systematic and effective implementation of Safety Oversight Audit (SOA) mechanism in accordance with para D3 of ANO-001-DRTS and other ANOs issued by Technical Standards (TS) Branch of DAAR with respect to Communication, Navigation and Surveillance (CNS) systems and relevant ICAO SARPs.
 - 1.1.2 Disseminate timely information regarding SOA/Inspection to all airports/locations as well as for the TS Inspectors to plan and conduct required audits/inspections in an efficient manner.
 - 1.1.3 Carry out random / surprise checks to assess compliance of relevant ANOs and actions being taken by airports/location to address findings of TS as per their Corrective Action Plans (CAPs).
 - 1.1.4 Comply with Macro Level Task & Target 2018-19 of Technical Standards Branch, DAAR.

2. **SCOPE:**

- 2.1 Technical Standards' Safety Oversight Audit/Inspection Plan is applicable to the following elements of Air Navigation Service Providers (ANSPs) at HQCAA and locations/airports:

2.1.1 **COMMUNICATION:**

2.1.1.1 **COMMUNICATION SYSTEMS FOR AERONAUTICAL BROADCAST SERVICE (ABS):**

- 2.1.1.1.1. Meteorological Information for aircraft in flight (VOLMET)
- 2.1.1.1.2. Automatic Terminal Information Service (ATIS)

2.1.1.2 **COMMUNICATION SYSTEMS FOR AERONAUTICAL FIXED SERVICE (AFS):**

- 2.1.1.2.1. ATS Direct Speech Circuits
- 2.1.1.2.2. Aeronautical Fixed Telecommunication Network (AFTN)
- 2.1.1.2.3. Aeronautical Message Handling System (AMHS)

2.1.1.3 **COMMUNICATION SYSTEMS FOR AERONAUTICAL RADIO NAVIGATION SERVICES (ARNS):**

- 2.1.1.3.1. HF / VHF ground-ground two-way communication
- 2.1.1.3.2. HF / VHF / UHF air-ground two-way communication
- 2.1.1.3.3. VHF / UHF Extended Range

2.1.1.4 **COMMUNICATION OPERATION SERVICES AND PROCEDURES**

- 2.1.1.4.1. Communication Centre
- 2.1.1.4.2. NOTMAN Office
- 2.1.1.4.3. Pre-Flight
- 2.1.1.4.4. HF R/T
- 2.1.1.4.5. Hotlines

2.1.2 **NAVIGATION:**

2.1.2.1 **INSTRUMENT LANDING SYSTEM (ILS):**

- 2.1.2.1.1. Localizer
- 2.1.2.1.2. Glide Slope
- 2.1.2.1.3. Terminal Distance Measuring Equipment (TDME)
- 2.1.2.1.4. Markers

2.1.2.2 **VHF OMNI-DIRECTIONAL RADIO RANGE (VOR):**

- 2.1.2.2.1. Conventional VOR
- 2.1.2.2.2. Doppler VOR
- 2.1.2.2.3. Distance Measuring Equipment (DME)

2.1.2.3 **BEACONS:**

- 2.1.2.3.1. Non-Directional Beacons (NDB)
- 2.1.2.3.2. Locator Beacon
- 2.1.2.3.3. Holding Beacon

2.1.3 **SURVEILLANCE:**

2.1.3.1 **RADAR SENSORS:**

- 2.1.3.1.1. Primary Surveillance Radar (PSR)
- 2.1.3.1.2. Secondary Surveillance Radar (SSR)
- 2.1.3.1.3. Multilateration (MLAT)
- 2.1.3.1.4. Surface Movement Radar (SMR)
- 2.1.3.1.5. Automatic Dependent Surveillance (ADS-B)

2.1.3.2 **RADAR DISPLAYS AND AUTOMATION SYSTEMS:**

- 2.1.3.2.1. Air Traffic Management (ATM) System
- 2.1.3.2.2. Voice Communication & Control System (VCCS)

2.1.3.3 **VOICE AND DATA RECORDERS:**

- 2.1.3.3.1. ATM Data Recorder
- 2.1.3.3.2. VCCS Audio Recorder
- 2.1.3.3.3. Voice Logging System (VLS)

2.1.4 **TERMINAL FACILITIES & OTHER SYSTEMS:**

- 2.1.4.1 Primary / secondary PSU and back-up systems such as UPS etc. used with CNS systems
- 2.1.4.2 Flight Information System
- 2.1.4.3 EPABX
- 2.1.4.4 AFCOM System
- 2.1.4.5 AFD System
- 2.1.4.6 Public Address System

3. **OBJECTIVES:**

- 3.1 Objectives of the Safety Oversight Audit/Inspection are to assess:
 - 3.1.1 Conformance of CNS systems and related services with regulatory requirements/standards and the level of compliance with ANOs and Manuals issued by Technical Standards branch.
 - 3.1.2 Compliance of Manuals, Procedures, Standard Operating Procedures (SOPs), Work Instructions (WIs) developed/implemented by the CNS service provider against the regulatory requirements.
 - 3.1.3 CNS related documents and Operation & Maintenance Manuals.
 - 3.1.4 Efficiency, qualification, competence and skill level of the deployed personnel.

4. **METHOD OF INSPECTION:**

- 4.1 The techniques for gathering the information will include:
 - 4.1.1 Review of related documentation e.g. SOPs, WIs, JDs, CNS Engineering Manual & Com. Operation Manual etc.
 - 4.1.2 Interviews with CNS maintenance / operational officials.
 - 4.1.3 Inspection of ground-based equipment w.r.t. relevant standards.
 - 4.1.4 Any other related observations by the inspector.
- 4.2 The inspection team should conduct audit/inspection systematically in accordance with Inspector's Handbook MNL-001-ARTS and record relevant points and observations.
- 4.3 The location may give feedback on prescribed proforma about inspection findings for improvement of Safety Oversight mechanism.

5. **SUBMISSION OF INSPECTION REPORTS:**

- 5.1 Safety Oversight Audit/Inspection report shall be submitted to the Director Airspace & Aerodrome Regulations (DAAR) through Additional Director Technical Standards within ten (10) working days of completion of inspection for approval.
- 5.2 The inspector shall distribute the report in hard/soft copy on Form CAAF-001-ARXX to all concerned within next three (03) working days after approval.
- 5.3 The inspector concerned will be responsible for further follow-up actions as per Inspector's Handbook MNL-001-ARTS.

6. **NOTIFICATION OF TENTATIVE PLAN:**

- 6.1 A tentative Annual Safety Oversight Plan for the year 2018-19 will be forwarded to each Airport / location by 31st July, 2018.
- 6.2 The actual date of visit and name of Inspectors will be intimated to the Airport / location at least one week before the visit after finalization of approval / flights etc.
- 6.3 Utmost efforts should be made to avoid changes to the tentative plan. Whenever unavoidable circumstances necessitate any change, timely liaison shall be made with the relevant offices.

7. SAFETY OVERSIGHT AUDIT/INSPECTION PLAN (2018-19):

7.1 The tentative Safety Oversight Audit/Inspection Plan for the year 2018-19 is given below:

S/N	STATION	AREA OF INSPECTION	NO. OF DAYS (EJP)	NO. OF INSPECTORS	TENTATIVE MONTHS
1	JIAP, Karachi / Cape Monze / Gharo	Com, Nav-Aids, Surv, T&E	04 + 01	05	July 2018
2	Chore NDB/ Hyderabad	Nav-Aids, EVHF	01	02	July 2018
3	Faisalabad	Com, Nav-Aids, EVHF, T&E	03	03	August 2018
4	Gilgit	Com, Nav-Aids	01	02	August 2018
5	Quetta / Lakpass	Com, Nav-Aids, Surv, T&E	02	04	September 2018
6	NIIAP, Islamabad	Com, Nav-Aids, Surv, T&E	04	05	September 2018
7	Zhob	Com, Nav-Aids, EVHF	02	03	September 2018
8	Dera Ismail Khan	Com, Nav-Aids	01	02	October 2018
9	Multan	Com, Nav-Aids, T&E	03	04	October 2018
10	Sialkot	Com, Nav-Aids, T&E	02	03	November 2018
11	AIAP, Lahore / Sheikhpura NDB Station	Com, Nav-Aids, Surv, T&E	04+01	05	November 2018
12	EED, JIAP Karachi	Com, Nav-Aids, Surv, T&E	03	4	December 2018
13	SZIAP R.Y. Khan / Rojhan	Com, Nav-Aids, Surv, T&E	02	04	December 2018
14	Nawabshah	Com, Nav-Aids	01	02	January 2019
15	Dalbandin	Com, Nav-Aids, EVHF	01	03	January 2019
16	Panjgur	Com, Nav-Aids	01	02	February 2019
17	Gawader	Com, Nav-Aids	01	02	February 2019
18	Pasni	Nav-Aids, Surv	01	02	February 2019
19	Turbat	Com, Nav-Aids	01	02	March 2019
20	BKIAP Peshawar / Laram Top	Com, Nav-Aids, EVHF, T&E	03	04	April 2019
21	Chitral	Com, Nav-Aids	01	02	April 2019
22	Com. Ops. Branch HQCAA (ANS Dte.) / CNS Dte.	T & E, Nav-Aids, Radar, Networks and Com. Ops. Branch	02	03	May 2019

Note: The tentative plan can be changed due to weather conditions, flight schedule and other exigencies of work.

Com : Communication System, Equipment , Communication Operations /Procedures

Surv: Surveillance System/Equipment, ADS-B, ATM System/Equipment

T& E: Telecom & Electronics

7.2 **RANDOM / SURPRISE INSPECTIONS:**

Surprise inspections/visits shall be carried out randomly minimum any three (03) airports/locations.

8. **IMPLEMENTATION:**

This Safety Oversight Inspection Plan (PLN-004-ARTS) version 2.0 supersedes the PLN-004-ARTS-1.1 dated 1st July 2017 and shall be implemented with effect from **1st July 2018**.

Dated: July 2018

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