



Civil Aviation Authority of Republic of Moldova
(National Supervisory Authority for ATM/ANS)

APPROVED:

Director CAA RM


Eugen COSTEI

“ 08 ” 12 2020

THE ANNUAL SAFETY OVERSIGHT REPORT

YEAR 2020

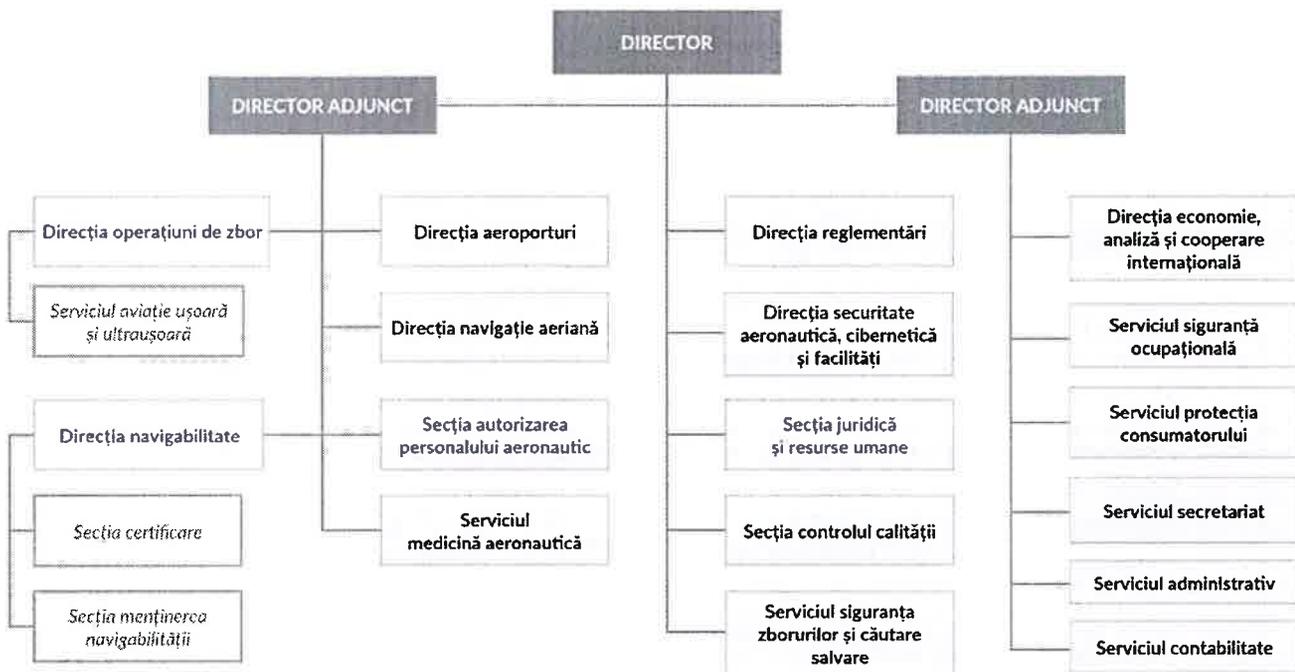
This report is prepared pursuant to Article 7 (1) of Aviation Code or RM Nr.301 from 21.12.2017, RAC ANSPC 0005 (4) and PIAC SSNA Part I (5.5), considering as a guidance the provisions of the Article 15 of the *COMMISSION IMPLEMENTING REGULATION (EU) No 1034/2011 of 17 October 2011 on safety oversight in air traffic management and air navigation services and amending Regulation (EU) No 691/2010*

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1. Organizational structure and procedures of the CAA/NSA for ATM/ANS of the Republic of Moldova

1.1 Moldovan CAA organizational structure



1.2 Structure and the components of the NSA for ATM/ANS

The functions of the National Supervisory Authority for ATM/ANS are jointly provided by the following divisions of the Moldovan CAA:

- I. Air Navigation Division – focal point and coordinator of all oversight processes related to providers of ATM/ANS
- II. Aviation Personnel Licensing Section
- III. Aviation Security Division
- IV. SMS and SAR Service
- V. Economic, Analysis and International Relation Division
- VI. Rulemaking Division

During the Year 2020, the National Supervisory Authority for ATM/ANS, continued to exercise its power impartially, independently and transparently, in accordance to approved procedures and applicable regulation framework. The CAA's management provided divisions stated above (acting as NSA for ATM/ANS) with necessary resources to support their capabilities to carry out the tasks assigned to them in an efficient and timely manner.

1.3 NSA procedures

During the Year 2020, following procedures were used by NSA to comply the tasks associated with functions, delegated by Primary Aviation Legislation (Aviation Code), Civil Aviation Regulation – Certification of ANSP, other national laws.

Nr	Procedure	Edition
1	Civil Aviation Procedure and Instructions – Oversight of ANS, Part I – “Certification and ongoing oversight of ANSP” (PIAC SSNA Part I)	Edition 01, March 2019
2	Civil Aviation Procedure and Instructions – Oversight of ANS, Part II – “ Safety Oversight of Changes in ATM/ANS functional systems” (PIAC SSNA Part II)	Edition 01, March 2019
3	Civil Aviation Procedure – “Approval and safety oversight of instrument flight procedure design organization”	Edition 1, February 2017
4	Civil Aviation Procedure and Instructions – “Identification, assessment and reporting of air navigation deficiencies (PIAC IERDNA)”	Edition 1, February 2020
5	Procedure on Approval of Instrument Flight Procedure (part of TR-on Design, verification and approval of IFP)	Edition 1, September 2016
6	Procedure on issue, amending and revalidation of Authorization on installation and use of radio transmitters (part of RAC-ATE)	Edition January 2006
7	Regulations on Aeronautical Inspections	Edition, July 2018
8	ANS Guidance on Inspection	Edition 04, April 2019
9	Regulation on Air Navigation Commission	Edition May 2018
10	Civil Aviation Procedure and Instructions – ATCO Certification PIAC- ATCO- CCTA	Edition 1, September 2019
11	Civil Aviation Procedure and Instructions – Certification of ATCO TO PIAC- ATCO- COP	Edition 1, September 2019
12	PI.SMS.ADS – “Safety Data Analyze Procedure”	Edition 01, April 2019
13	Occurrences Reporting Procedure (part of RAC-REAC)	Edition 01, 17.02.2007
14	Procedure on SMS implementation assessment (part of SMS Regulation)	Edition 01, January 2014, Am 02 July 2017
15	Procedure regarding review of proposals/approvals and monitoring of amendments to ICAO documents	Edition 02, 30.01.2020

1.4 NSA activities during 2020

I. Rulemaking issues

During 2020, NSA elaborated or supported the elaboration/actualization/amendment of the following national documents which regulates, or have indirect effect on the provision of ATM/ANS:

Nr	Document	Actions
1	CT-MET (Technical requirements. Meteorological assistance to air navigation)	A new amendment (03) was elaborated and approved in order to transpose Am79 and 80 of ICAO Annex 3
2	CT-HA (Technical requirements. Aeronautical Charts)	A new edition (03) was elaborated and approved in order to transpose Am61 of ICAO Annex 4
3	CT-STA (Technical requirements. Air traffic services.)	A new amendment (03) was elaborated and approved in order to transpose Am52 of ICAO Annex 11
4	CT-SIA (Technical requirements. Aeronautical Information Services)	A new amendment (02) was elaborated and approved in order to transpose Am42 of ICAO Annex 15
5	Enforcement (promulgation) of PANS ATM Am.9 and 10	Notice on enforcement was elaborated
2	Enforcement (promulgation) of PANS AIM Am.02	Notice on enforcement was elaborated
3	CT-OAN (Technical Requirements regarding operations on uncontrolled national aerodromes and establishment of aerodrome traffic zone)	Initial edition was elaborated and approved in June 2020
4	RAC-ATE (Civil Aviation Regulation regarding registration and authorization of Aeronautical Radio Transmitters)	New edition was drafted and sent to MEI. Approval is in progress
5	Regulation on FUA (transposition of Regulation EU2150/2005)	Initial edition was drafted and sent to MEI. Approval is in progress
6	Regulation on creating of National SAR System	Initial edition was drafted together with MEI. Approval is in progress
7	GM- determination of the need air traffic controllers' resources in order to ensure the staffing of ATC unit	Initial edition was elaborated and approved in September 2020

II. Safety oversight inspections

The main processes of ongoing safety oversight in cycle 2020-2021 remained planned and ad-hoc inspections, surveys, interviews and collecting information via safety reporting system. The Safety Oversight Inspection's Program for cycle 2020-2021 was established considering the risk based oversight approach, mainly being focused on verification whether ANSP remains in compliance with applicable requirements related to technical and

operational competence and capability, human resources, management system, quality (compliance) assurance program, safety management system (in special internal investigation of occurrences), level 3 airspace management procedures, as shown in image below:

PROGRAMUL INSPECTIILOR DE SUPRAVECHERIRE A TURNCIILOR ULUI DE SERVICIU NAUTIC DE AERIANA 1.5. MOLDAVIA
 în perioada 2020-2021
 Pagina 1 din 10/2020

AFRUGAT
 DIRECTOR IAC

..... Eugen COȘTEI

DATA:

Nr.	Denumirea inspecției (denumire)	Responsabil inspecție de execuție	CATEGORIA INSPECȚIEI	2020												2021													
				Jan	Feb	Mar	Apr	Mai	Iun	Iul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Mai	Iun	Iul	Aug	Sep	Oct	Nov	Dec		
SERVICIUL CONTROL TRAFIC AERIAN																													
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1. Inspecțiile sunt planificate în funcție de disponibilitatea resurselor umane și materiale necesare pentru realizarea activităților de supraveghere a turnciilor ului de serviciu nautilic de aeriana 1.5. MOLDAVIA. 2. Inspecțiile sunt efectuate în funcție de disponibilitatea resurselor umane și materiale necesare pentru realizarea activităților de supraveghere a turnciilor ului de serviciu nautilic de aeriana 1.5. MOLDAVIA. 3. Programul inspecțiilor este actualizat în funcție de evoluția situației sanitare și de necesitățile de supraveghere a turnciilor ului de serviciu nautilic de aeriana 1.5. MOLDAVIA. 4. Programul inspecțiilor este actualizat în funcție de evoluția situației sanitare și de necesitățile de supraveghere a turnciilor ului de serviciu nautilic de aeriana 1.5. MOLDAVIA.

ELABORAT DE DIRECTORUL SERVICIULUI INFORMAȚII AERIANE

 04.06.2020

Despite on difficulty situation in 2020 generated by COVID 19 pandemic, the NSA’s Inspectors succeed to perform all 7 planned inspections. All of them were performed through the desktop methods, as recommended by EASA and stated in the Dispositions Nr. 3 form 23.03.2020 and Nr.6 from 26.03.2020 of the Commissions on Exceptional Situations of Republic of Moldova. It is to be mentioned that, ANSP’s personnel involved in the organization and evolution of the inspections demonstrated a very open, collaborative and professional attitude. Thus, during desktop inspections, as evidences were presented and reviewed:

- i. training records,

- ii. results of the internal investigations,
- iii. safety assessments reports preceding the implementation of changes,
- iv. operations manuals, procedures, job descriptions,
- v. annual quality audits program, internal audit reports and audit's checklists.

Additionally, a review of the content of the LUKK TWR/GND Technological Working Instruction was performed by NSA Inspector following a voluntary anonymous report, blaming the quality of services provided by this ATS unit.

The results of the 2020-th Safety Oversight Inspections Program are described in Chapter 5 below.

It is to be mentioned, that in 2020 S.E. MOLDATSA was certified by NSA as ATCO TO. The certification process took place between September and December 2020 and was based on the certification requirements established in the "Regulation establishing the requirements procedures relating to certificates air traffic controllers", adopted through a Government Decision Nr. 134 from 27.02.2019. This Regulation is a national transposition of the COMMISSION REGULATION (EU) 2015/340 of 20 February 2015 laying down technical requirements and administrative procedures relating to air traffic controllers' licenses and certificates pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council, amending Commission Implementing Regulation (EU) No 923/2012 and repealing Commission Regulation (EU) No 805/2011

III. Safety oversight of changes in ATM/ANS functional systems

In 2020, S.E. MOLDATSA notified NSA on 5 modifications, as per below:

- i. Notification Nr.82 from 04.02.2020 regarding restructuring of the ATS Department, Meteorological Department, Quality and Safety Management Department
- ii. Notification Nr.365 from 12.08.2020 regarding restructuring of the FMP, ARO Briefing
- iii. Notification Nr.381 from 20.08.2020 regarding Plan of the modification of the airspace elements within LUKK TMA
- iv. Notification Nr.434 from 06.10.2020 regarding modernization of meteorological data processing software
- v. Notification Nr.457 from 20.10.2020 regarding modernization of the LAN optical network

All notifications were annexed with the preliminary assessments, stating the categories of the severity for the potential consequences, considering the worst scenario. According to the assessments, the modifications have been classified:

The i., ii., v. – as minor changes, not requiring NSA's review and acceptance prior introduction in to operation of changes

The iii., and iv. – as a major changes, requiring NSA's review and prior acceptance.

At the date of the present Report's elaboration – the changes iii., iv. and v. are in the process of the implementation.

IV. Approvals / Acceptance of ANSP Manuals

A number of ANSP's manuals (amendments to them) were reviewed during 2019 by NSA's experts in order to issue their approval or acceptance (as appropriate). These were:

- a) ATS Unit Competence Scheme Edition 02;
- b) ATCO TO Management Manual Edition 01;

- c) UTP ACC, APP, TWR Edition 01;
- d) Quality Assurance Program Edition 04;
- e) SMS Manual and associated procedures Edition 05;
- f) Organization exposition Edition 7;
- g) ATC operational manual Edition 01
- h) Manual on qualification, training and assessment of competencies of AMP Edition 02

V. Analyzing of ATM related incidents and other safety event

Even NSA is not delegated with functions and responsibilities related to the aviation incidents / accidents investigations, during 2020 the NSA's experts were involved in analyzing of a number of safety events in order to identify the weaknesses and deficiencies in the existing oversight and regulatory system and by implementing of appropriate corrective actions to contribute to the prevention of similar events in the future. Thus, the ANS Division's personnel analyzed the safety data in respect with the following events:

Nr.	Event description	Date of occurrence
1	The fit LOT514 LUKK-EPWA took off from RWY26 without take off clearance	27.01.2020
2	Aircraft C150(ER-CSA) flying in the controlled airspace, left the APP frequency without ATC clearance	14.07.2020
3	Aircraft C150(ER-CTO) unauthorized entering in the controlled airspace (airspace infringement)	14.07.2020
4	Aircraft BT-10 (YR-IFR) emergency landing on closed RWY 26	02.08.2020
5	Aircraft PIVI YR5522 level changes in controlled airspace without ATC clearance	15.08.2020
5	Aircraft C150 (ER-CAP) VFR flight operations in instrumental meteorological conditions	25.09.2020
6	Aircraft C172 (ER-COT) level changes in controlled airspace without ATC clearance and low level flight over Chisinau City	10.10.2020
7	ASR on RTF communication between ATC and aircraft flying in TSA	18.10.2020
8	Aircraft ERLSA separation minima infringement and noncompliance with ATC clearance	07.11.2020

VI. Verification and approval of Instrument Flight Procedures

In January 2020, the NSA's Inspector finished the review and approval processes of following Instrument Flight Procedures:

- i. RNP RWY 08 (LNAV ONLY) LUKK;
- ii. RNP RWY 08 (LNAV/VNAV ONLY) LUKK;
- iii. RNP RWY 26 (LNAV ONLY) LUKK;
- iv. RNP RWY 26 (LNAV/VNAV ONLY) LUKK ;
- v. RNP RWY 09 (LNAV ONLY) LUKK;
- vi. RNP RWY 09 (LNAV/VNAV ONLY) LUKK;
- vii. RNP RWY 27 (LNAV ONLY) LUKK;
- viii. RNP RWY 27 (LNAV/VNAV ONLY) LUKK.

Also, in the November 2020, NSA Inspector reviewed the documents and evidences provided by FDP provider MOLDATSA for the acceptance of the contracted ground and flight validation service provider „ASG Business Aviation”

VII. Exercises, simulations, trainings

In 2020, due to COVID 19 the exercise VOLCEX20 was postponed to year 2021.

A series of the workshops/meetings/communications were organized during 2020 under the EUROCONTROL Support to State Project:

- i. ATCO TO and Licensing - email communications with all involved in copy
- ii. Technical support in the expertise of the ATS Unit Competence Scheme, UTPs
- iii. Compliance Monitoring Function – workshop on 27.10.2020
- iv. Cyber Security - workshop on 01.12.2020
- v. Review of MOLDATSA Contingency Plan – October-December 2020

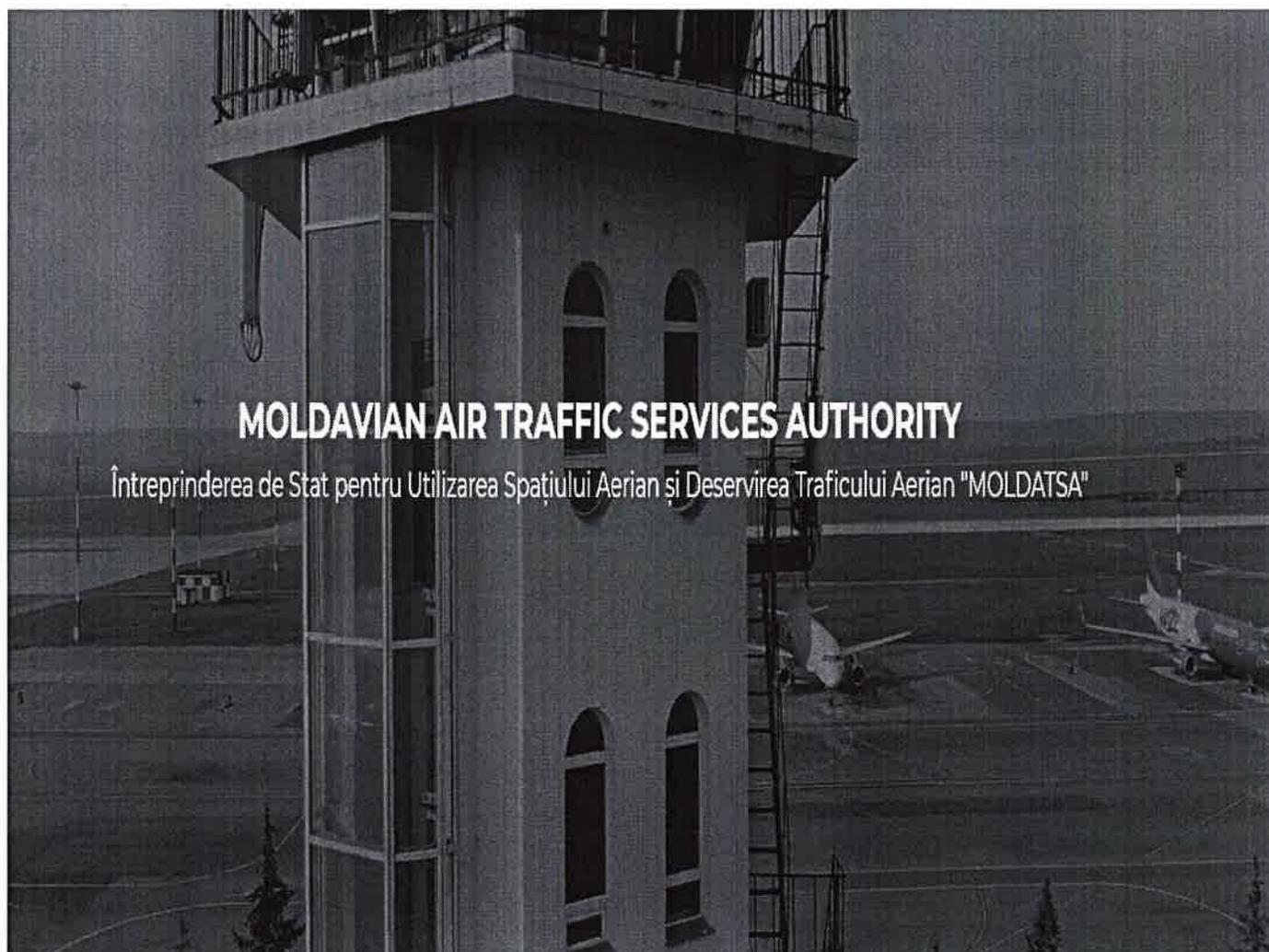
Due to COVID 19, the trainings of the ANS inspectors, planned to be attended at IANS have been postponed to 2021. Nevertheless, in 2020, the ANS division inspectors attended the online trainings provided by IANS as listed below:

- ✓ "EU rulemaking for delegated and implementing acts"
- ✓ "Introduction to Airspace Management"
- ✓ "2017/373 - Cover Regulation"
- ✓ "Basics of regulation"
- ✓ "2017-373 AMC and GM for software"
- ✓ "2017/373 - Part-PERS"
- ✓ "2017/373 - Safety (Support) Assessment"
- ✓ "Crisis Management in Aviation"
- ✓ "Basic Regulation 2018/1139 ATM/ANS"
- ✓ "Basic Regulation 2018/1139 – Interoperability"
- ✓ "Implementing SMS in ATM - Practicalities"
- ✓ "GEN-FUT: From AIM to SWIM"

VIII. NSA reaction to COVID 19 and measures undertaken in respect to certification/licensing of the air traffic controllers

In order to prevent the spreading of the COVID 19, taking into considerations measures adopted by EASA, as well as, the exemption template issued in accordance with Article 71(1) of Regulation (EU) 2018/1139 to support Member States in a collective and harmonized adoption of exemption measures aimed at extending the validity period of ratings, certificates and medical reports, as applicable, for flight crews, cabin crews, instructors and examiners, mechanics, air traffic controllers and aeromedical examiners and in order to acknowledge the national aeronautical stakeholders on measures adopted by the Committee on Exceptional Situations of the Republic of Moldova through Decision no.6 dated 26th of March 2020, on 27.03.2020, the Civil Aviation Authority of RM (NSA) issued a Circular No.04-27/03/2020 specifying that the approvals and authorizations issued by CAA RM to aeronautical stakeholders, as well as certificates/licenses issued to aeronautical personnel carrying out their activity in the field of civil aviation (including Air Traffic Controllers), the validity of which expires during the exceptional situation period, shall be automatically extended for 60 days.

2. Airspace and Services Providers under the responsibility of National Supervisory Authority of the Republic of Moldova



In 2020, the air navigation services in Republic of Moldova have been continuously provided by the – State Enterprise” MoldATSA” (Moldavian Air Traffic Services Authority) – the certified and designated ANS provider.

“MoldATSA” – was created in 1994 in accordance with the Government Resolution No.3 of 12 January 1994. At present time, “MoldATSA” is an autonomous 100% State owned enterprise, operating on a self-financing basis, being administrative subordinated to the Public Property Agency, according to the Government Decision Nr. 902 from 06.11.2017. Actually, the number of employees is equal to 277 persons. “MoldATSA” is certified (ANSP Certificate Nr.002) by Moldovan CAA/NSA to provide following air navigation services:

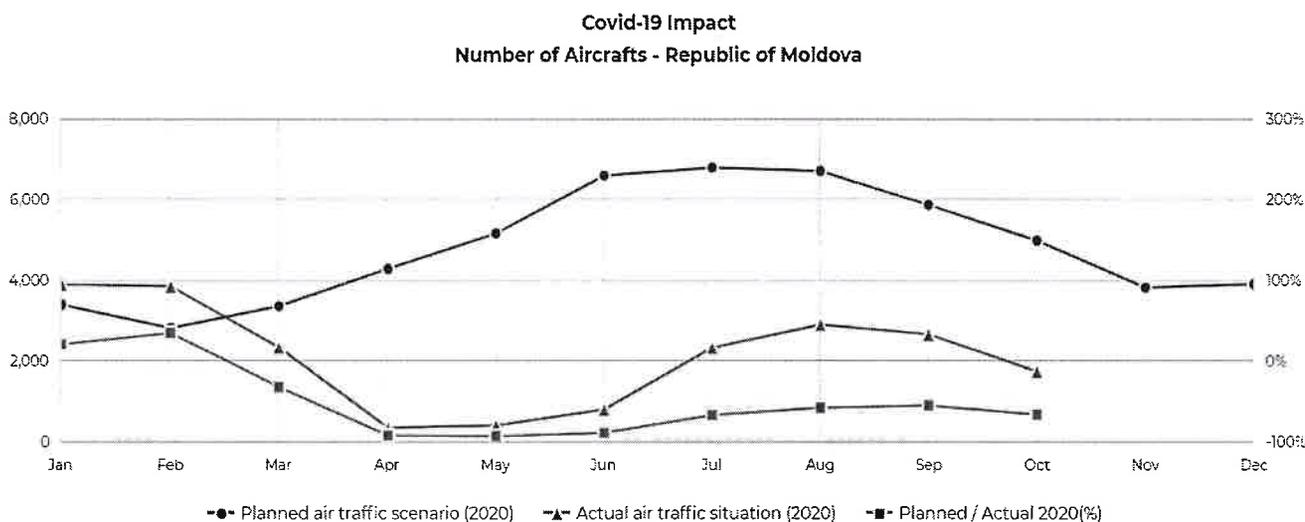
1. Air Traffic Services (ATS);
2. Aeronautical Meteorological Services (MET);
3. Aeronautical Information Services (AIS);
4. Communication, Navigation, Surveillance Services (CNS);

Beside services mentioned above, MoldATSA is also approved by CAA RM to provide:

1. Design of the Instrument Flight Procedures,
2. Functions related to Air Traffic Flow Management (in collaboration with Network Manager, represented by EUROCONTROL),
3. ASM Level 2 and 3 (indirect designation, via specific regulation)

All this services and functions are provided by S.E. MoldATSA within Chisinau Flight Information Region and in respect to aerodromes located within territory of RM. No any cross border services are provided by S.E. MoldATSA.

In 2020, the COVID19 pandemic situation strongly affected the hole aviation industry. The S.E. MOLDATSA was not an exclusion. Bellow diagram reflects the comparison between planned and actual traffic served by S.E. MOLDATSA in 2020:



In order to meet the challenges caused by the COVID 19 pandemic and to maintain it's technical and operational capability to provide safe, efficient and continue services, S.E. MOLDATSA, have activated since March 2020 an appropriate developed Contingency Plan. The plan was focused on ensuring compliance with the decisions of the National Committee on Exceptional Situations, as well as on ensuring the health protection of the operational personnel such as: air traffic controllers, ATSTEP, aeronautical meteorological personnel, and those ensuring the services related to aeronautical information management.

3. Qualified entities commissioned to conduct safety regulatory audits

No qualified entities were commissioned by Moldovan CAA to conduct safety regulatory audits during 2020.

4. Existing levels of resources of the NSA

At the present, NSA for ATM/ANS domain, exercises its functions with the following resources:

Nr	Structural unit	Number of persons involved in exercising of NSA ATM/ANS functions
1	Air navigation division	5 (ATM,MET,AIS,CNS and PANS OPS)
2	Aeromedical service	1
3	Aviation Personnel section	3
4	Quality Control service	2
5	Legal and Human Resources section	2
6	SMS and SAR service	3
7	Aviation Security, cybersecurity and facilitation division	2
8	Economic and Analyzis division	2
9	Rulemaking division	4
TOTAL		24

5. Safety issues identified through the safety oversight processes

During the safety oversight inspections performed during the 2020, as mentioned in Chapter 1.4, ii. above, the following results could be stated:

Safety oversight inspections performed in 2020			
Nr	Inspection No.	Inspection's Criteria	Number of findings
1	IMPLEMENTATION OF THE SMS PROCEDURES RELATED TO SAFETY ASSESSMENT, OCCURENCES INVESTIGATIONS AND PROMOTION OF THE REZULTS AMONG STAFF AND COMPLIANCE MONITORING THROUGH THE QUALITY ASSURANCE PROGRAM (CTA 0120)	RAC ANSPC 0075 (2) (h), (i); (4) (b); PANS ATM 2.5-2.6; RAC ANSPC 0030(b)	-

2	IMPLEMENTATION OF THE asm LEVEL3 PROCEDURS AND COMPLIANCE MONITORING THROUGH THE QUALITY ASSURANCE (CTA 0220)	PROCEDURA PRIVIND ALOCARE ZONELOR TRA/TSA PENTRU ACTIVITĂȚI TEMPORARE, OCAZIONALE SAU DE SCURTĂ DURATĂ. RAC ANSPC 0030(b)	3 OBSERVATIONS
3	TECHNICAL AND OPERATIONAL CAPABILITY AND COMPETENCE.WORKING METHODS AND OPERATIONAL PROCEDURES. COMPLIANCE MONITORING THROUGH THE QUALITY ASSURANCE PROGRAM (MET0120)	RAC ANSPC 0035, 0095, 0100. RAC ANSPC 0030(b)	1 OBSERVATION
4	HUMAN RESOURCE MANAGEMENT TRAINING, QUALIFICATION AND COMPETENCE OF NOF /SMIA PERSONNEL. COMPLIANCE MONITORING THROUGH THE QUALITY ASSURANCE PROGRAM (SMIA0120)	RAC-ANSPC 0045,RAC-ANSPC 0010, RAC-ANSPC 0105, CT-SIA 3.6.4	-
5	HUMAN RESOURCE MANAGEMENT TRAINING, QUALIFICATION AND COMPETENCE OF CARTOGRAPHIC PERSONNEL. QUALITY OF AERONAUTICAL DATA USED FOR CARTIGRAPGY. COMPLIANCE MONITORING THROUGH THE QUALITY ASSURANCE PROGRAM (CARTO 0120)	RAC ANSPC 0045; CT-SIA 3.6.4; CT HA 2.17; CT –SIA 3.2; RAC ANSPC 0030(b)	-
6	TECHNICAL AND OPERATIONAL CAPABILITY AND COMPETENCE.WORKING METHODS AND OPERATIONAL PROCEDURES. COMPLIANCE MONITORING THROUGH THE QUALITY ASSURANCE PROGRAM (CNS0120)	RAC ANSPC 0115, 030 (b)	-
7	REQUIREMENTS TO SMS. LEVEL OF THE IMPLEMETATION OF SMS WITHIN ANSP (SMS 0120)	RAC ANSPC 0025; RegulaTION SMS	0
Summary of findings			4 Observations

6. Safety Directives

No safety directives in respect to ATM/ANS were issued by NSA during 2020.

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Date: 08.12.2020