



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

ICAO AFI INTER-REGIONAL

SEARCH AND RESCUE WORKSHOP

SAR & USOAP CMA

Luanda 15-19 June 2024- Presented by the ICAO Secretariat

— **OUTLINE**

- **USOAP CMA-Generals**
- **SAR Protocol questions**
- **Status of SAR EI in AFI**
- **Frequently occurring findings**
- **Addressing findings in SAR**

— USOAP CMA GENERALS

- **USOAP OBJECTIVES**

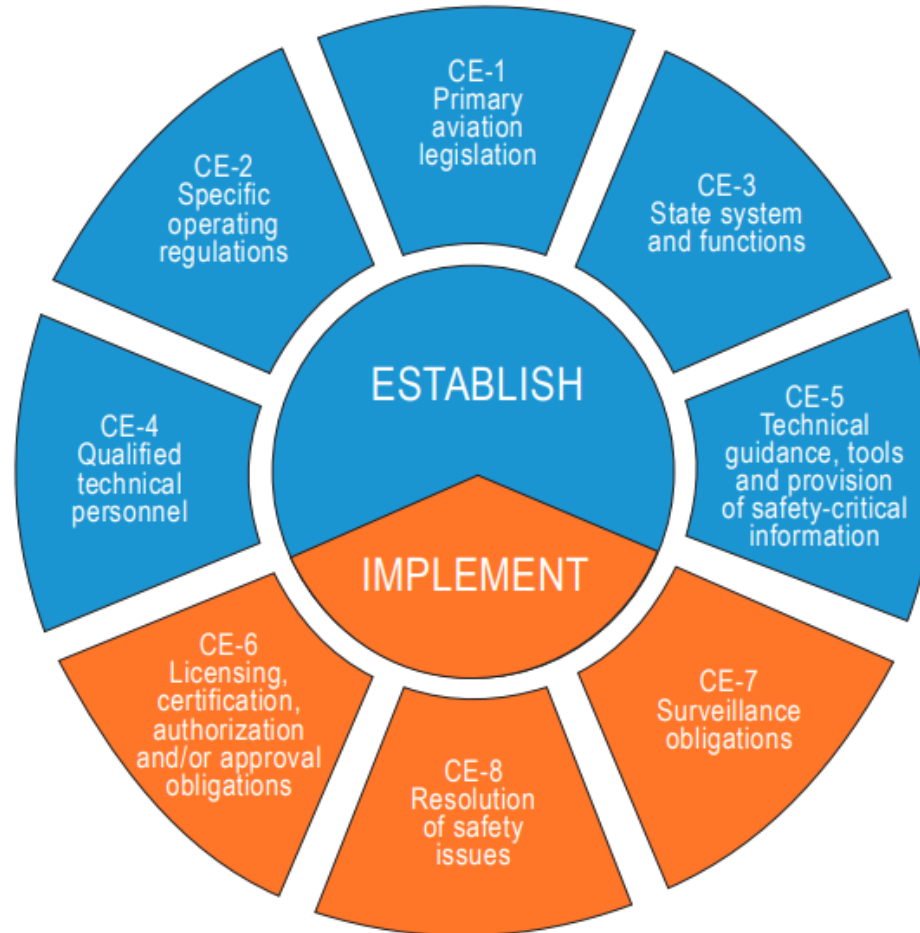
promote global aviation safety through continuous monitoring and determination of Member States' safety oversight and safety management capabilities.

- **USOAP ACTIVITIES**

- **Audit & validation**: systematic and objective review of a State's effective implementation of the eight critical elements of a State safety oversight system and accident/incident investigation capabilities.
- **State Safety Programme Implementation Assessments (SSPIAs)**: to determine the maturity levels of the State's State Safety Programme (SSP) implementation and maintenance based on the results of the SSP PQs

— USOAP CMA GENERALS

- CRITICAL ELEMENTS (CE)



— USOAP CMA GENERALS

- **AUDIT AREAS**

AREA	DESCRIPTORS	COMPONENTS
LEG	primary aviation legislation and specific operating regulations	
ORG	civil aviation organization	
PEL	personnel licensing and training	
OPS	aircraft operations	
AIR	airworthiness of aircraft	
AIG	aircraft accident and incident investigation	
ANS	air navigation services	ATM, PANS-OPS, AIS, Chart, CNS, MET & SAR
AGA	aerodromes and ground aids	

— USOAP CMA GENERALS

- ANS PROTOCOL QUESTIONS

- 122 ANS related Protocol questions (PQs) including:
 - ✓ ANS-General: 15 PQs
 - ✓ ATS-36 PQs
 - ✓ PANS-OPS- 14 PQs
 - ✓ AIS- 12 PQs
 - ✓ Chart- 3 PQs
 - ✓ CNS-9 PQs
 - ✓ MET- 17 PQs
 - ✓ SAR- 16 PQs

SAR Protocol questions

PQ #	CRITICAL ELEMENT	DESCRIPTOR
7.005	CE 1	Has the State promulgated primary aviation legislation to facilitate the assistance of aircraft in distress in its territory in adherence to Article 25 of the Chicago Convention?
7.481	CE 6	Has the State arranged for the establishment and provision of SAR services within its territory and the areas where the State has accepted responsibility to provide SAR on a 24-hour basis in accordance with Annex 12 provisions?
7.487	CE 3	Does the SAR inspectorate have sufficient human resources to carry out its functions?
7.491	CE 3	Has the State established for SAR inspectors: a) job descriptions; b) minimum qualifications; and c) experience requirements?
7.499	CE 4	Is the training programme appropriately implemented for SAR inspectors?
7.505	CE 7	Has the State established and implemented a formal surveillance programme for the continuing supervision of the rescue coordination centre (RCC) and, as appropriate, rescue sub-centre (RSC)?
7.507	CE 8	Has the State established and implemented a mechanism/system with time frame for the elimination of deficiencies identified by SAR inspectors?

SAR Protocol questions

PQ #	CRITICAL ELEMENT	DESCRIPTOR
7.513	CE 6	Has the State established an RCC or, as applicable, an RSC in each search and rescue region (SRR)?
7.517	CE 6	Does the State ensure that its SAR organization coordinates with those of neighbouring States?
7.519	CE 2	Does the State permit, subject to such conditions as may be prescribed by its own authorities, entry into its territory of SAR units of other States for the purpose of searching for the site of aircraft accidents and rescuing survivors of such accidents?
7.521	CE 3	Does the State authorize its rescue coordination centres (RCCs) to provide, when requested, assistance to other RCCs, including assistance in the form of aircraft, vessels, persons or equipment?
7.525	CE 6	Does the State ensure that an H24 (continuing day and night service) designation of a SAR point of contact for the receipt of COSPAS-SARSAT distress data?
7.529	CE 7	Has the State ensured that each rescue coordination centre (RCC) and rescue sub-centre (RSC) employ sufficient workforce skilled in coordination and operational functions?
7.537	CE 7	Does the State ensure that the rescue coordination centre (RCC) and, as appropriate, rescue sub-centre (RSC), is staffed 24 hours a day by trained personnel proficient in the use of the English language?

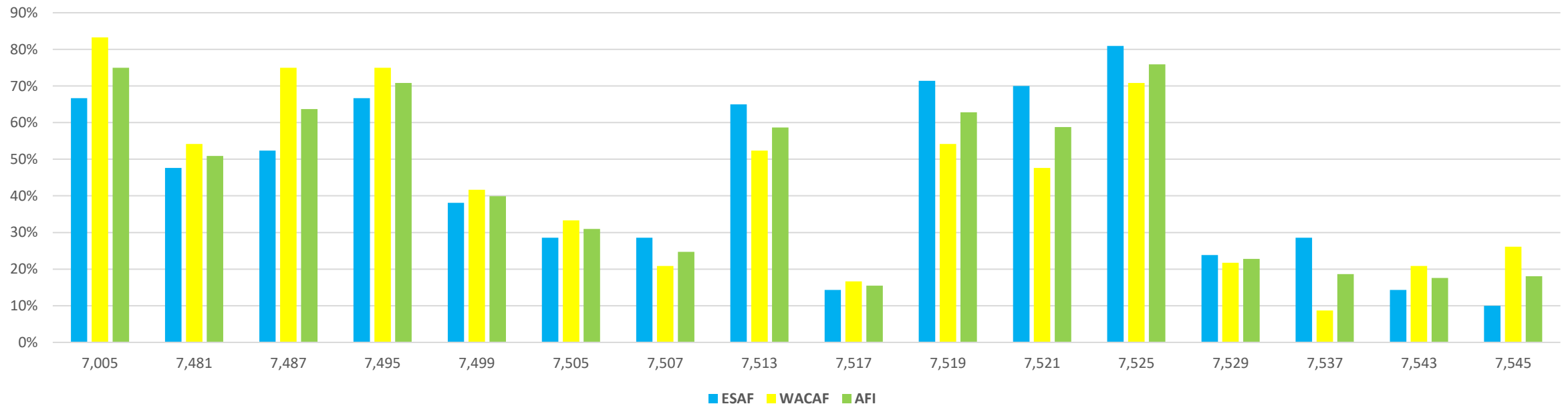
— SAR Protocol questions

PQ #	CRITICAL ELEMENT	DESCRIPTOR
7.543	CE 7	Does the State ensure that each rescue coordination centre (RCC) has prepared detailed plans of operation for the conduct of SAR operations?
7.545	CE 7	Does the State ensure that SAR personnel are regularly trained and that appropriate SAR exercises are arranged?

Status of SAR EI in AFI

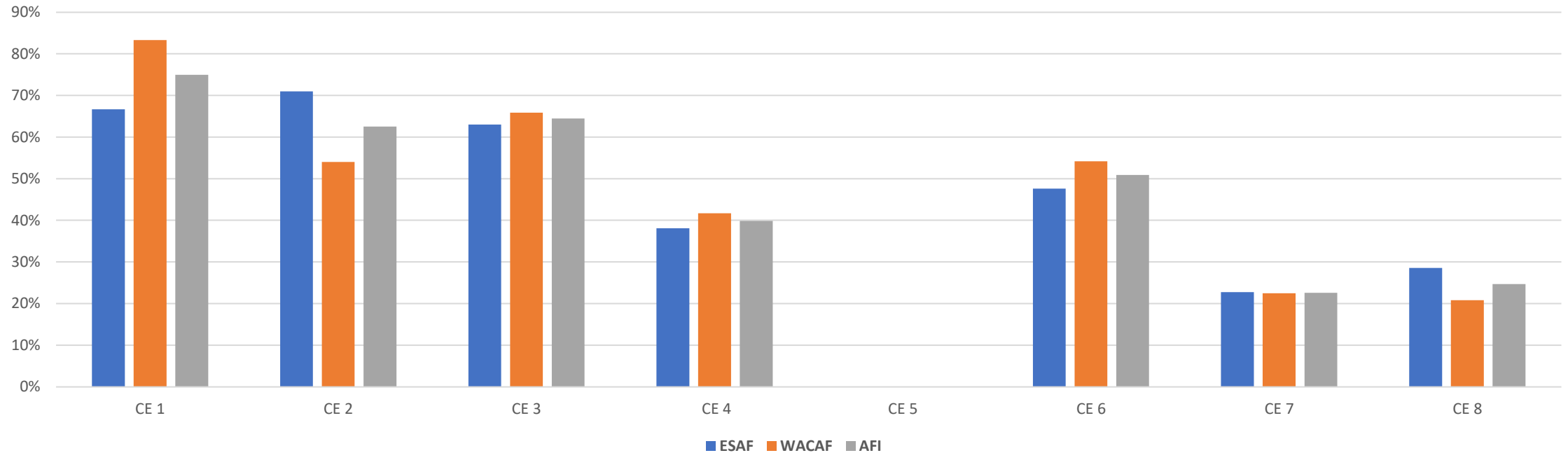
AREA	7.005	7.481	7.487	7.495	7.499	7.505	7.507	7.513	7.517	7.519	7.521	7.525	7.529	7.537	7.543	7.545
	CE 1	CE 6	CE 3	CE 3	CE 4	CE 7	CE 8	CE 6	CE 6	CE 2	CE 3	CE 6	CE 7	CE 7	CE 7	CE 7
ESAF	66.67%	47.62%	52.38%	66.67%	38.10%	28.57%	28.57%	65.00%	14.29%	71.43%	70.00%	80.95%	23.81%	28.57%	14.29%	10.00%
WACAF	83.30%	54.17%	75.00%	75.00%	41.67%	33.33%	20.83%	52.38%	16.67%	54.17%	47.62%	70.83%	21.74%	8.70%	20.83%	26.09%
AFI	74.99%	50.90%	63.69%	70.84%	39.89%	30.95%	24.70%	58.69%	15.48%	62.80%	58.81%	75.89%	22.78%	18.64%	17.56%	18.05%

AFI SAR EIs BY PQ



Status of SAR EI in AFI

AFI SAR EI BY CRITICAL ELEMENT



The AFI SAR system weakness areas reside in the training and qualification of technical personnel, approval of industry activities, surveillance and resolution of deficiencies.

Frequently occurring findings

PQ #	PQ	EXTRACT OF RELATED FINDINGS
7.499	Is the training programme appropriately implemented for SAR inspectors?	<ul style="list-style-type: none"> Training programme and plan not established. Training programme and plans not fully implemented No system established for the maintenance of training record for technical staff.
7.505	Has the State established and implemented a formal surveillance programme for the continuing supervision of the rescue coordination centre (RCC) and, as appropriate, rescue sub-centre (RSC)?	<ul style="list-style-type: none"> No oversight system for ANS established and implemented. No oversight mechanism of RCC/RSC established.
7.507	Has the State established and implemented a mechanism/system with time frame for the elimination of deficiencies identified by SAR inspectors?	<ul style="list-style-type: none"> No mechanism established for the resolution of deficiencies in SAR No follow up on the resolution of deficiencies identified during inspection.

Frequently occurring findings

PQ #	PQ	EXTRACT OF RELATED FINDINGS
7.517	Does the State ensure that its SAR organization coordinates with those of neighbouring States?	<ul style="list-style-type: none"> ▪ No SAR organization established in accordance with Annex 12 ▪ No SAR agreement signed with neighboring States. ▪ No SAR activities coordinated with neighboring States
7.529	Has the State ensured that each rescue coordination centre (RCC) and rescue sub-centre (RSC) employ sufficient workforce skilled in coordination and operational functions?	<ul style="list-style-type: none"> ▪ Insufficient workforce skilled in coordination and operational functions ▪ Recruitment plan for SAR personnel developed but not implemented
7.537	Does the State ensure that the rescue coordination centre (RCC) and, as appropriate, rescue sub-centre (RSC), is staffed 24 hours a day by trained personnel proficient in the use of the English language?	<ul style="list-style-type: none"> ▪ No mechanism to ensure effective implementation of the requirements for RCC/RSC to be staffed 24 hours a day by trained personnel proficient in the use of the English language. ▪ No SAR inspectorate established.

Frequently occurring findings

PQ #	PQ	EXTRACT OF RELATED FINDINGS
7.543	Does the State ensure that each rescue coordination centre (RCC) has prepared detailed plans of operation for the conduct of SAR operations?	<ul style="list-style-type: none"> NO SAR Plan of operations has been established SAR plans of operations outdated. Unclear assigned responsibility for SAR coordination.
7.545	Does the State ensure that SAR personnel are regularly trained and that appropriate SAR exercises are arranged?	<ul style="list-style-type: none"> No documented process established for the determination of operational staff requirements. ineffective mechanism to ensure the effective implementation SAR training programme. No SAR exercises arranged.

— Addressing SAR findings

➤ Findings from a USOAP CMA activity is addressed through the development, submission, validation and effective implementation of a **corrective action plan (CAP)**.

➤ **6 Criteria for the development of an effective CAP.**

1. Relevant – CAPs should address the issues and requirements related to the finding and corresponding PQ and critical element (CE).

2. Comprehensive – CAPs should be complete; including all elements or aspects associated with the finding.

3. Detailed – CAPs should be laid out in a step-by-step approach, as required, to outline the implementation process.

4. Specific – CAPs should identify who will do what, when, in coordination with the responsible office or entity.

5. Realistic – CAPs should be realistic in terms of contents and implementation timelines.

6. Consistent – CAPs should be consistent in relation to other CAPs and with the State self-assessment.

— Addressing SAR findings

➤ Tips to develop effective CAP for SAR findings

- ✓ CAP development is a teamwork: Need for expertly brainstorming to agree on the most suitable actions
- ✓ Use of action verbs is highly recommended
- ✓ Generic verbs such as: ensure, observe, make sure, think about etc. are not recommended
- ✓ Break down large action items into smaller, more manageable elements.
- ✓ Describe each proposed action in a clear and detailed manner.
- ✓ List the step-by-step corrective actions in the correct sequential and/or chronological order
- ✓ Provide a good and clear working plan and adequate detail for the implementation of each step of the proposed corrective actions.
- ✓ For findings associated with CEs 6, 7 and 8, provide necessary details (i.e. evidences and examples) on implemented requirements and procedures.
- ✓ Use a table template similar to that of the USOAP CMA Online Framework (OLF) to ensure consistency with format.
- ✓ Seek advice from your respective accredited ICAO regional office whenever necessary

— Addressing SAR findings

➤ CAP TABLE TEMPLATE

Step	Proposed action	Action office	Evidence Reference	Estimated implementation date (EID)	Revised implementation date (EID)	Date of completion	Progress
Action #	Action item	Names of all entities involved in implementation of the action	Documents that support the implementation	Estimated Date of completion of the action	New date of completion of updated action	Actual date of completion of the action	Status of progress of the action (could be “NOT STARTED, % of completion, COMPLETED”)

— Addressing SAR findings

➤ CAP TABLE-EXAMPLE

PQ 7.005 Finding: State has not promulgated primary aviation legislation to facilitate the assistance of aircraft in distress in its territory in adherence to Article 25 of the Chicago Convention

Step	Proposed action	Action office	Evidence Reference	Estimated implementation date (EID)	Revised implementation date (EID)	Date of completion	Progress
1	Revise and validate the aviation law section XXXXXX to include aspect related to the facilitation of assistance of aircraft in distress in XX territory in adherence to Art 25 of the Chicago Convention (CC)	ANS department Legal department	<ol style="list-style-type: none"> 1. Meeting Minutes 2. List of attendance 3. Section xxxxxx amended of aviation law 	17/06/2024			Not started

— Addressing SAR findings

➤ CAP TABLE-EXAMPLE

PQ 7.005 Finding: State has not promulgated primary aviation legislation to facilitate the assistance of aircraft in distress in its territory in adherence to Article 25 of the Chicago Convention

Step	Proposed action	Action office	Evidence Reference	Estimated implementation date (EID)	Revised implementation date (EID)	Date of completion	Progress
2	Request approval of the validated draft aviation law.	Legal department	1. Internal correspondence of request 2. Draft aviation law reviewed	24/06/2024			Not started
3	Approve the draft aviation law	Office of the DG	1. Approval note	01/07/2024			Not started
4	Submit the draft aviation law to the office of the minister of transport	Office of the DG CAA board	1. Letter of submission 2. Copy of the draft aviation law	08/07/2024			Not started



— Addressing SAR findings

➤ CAP TABLE-EXAMPLE

PQ 7.005 Finding: State has not promulgated primary aviation legislation to facilitate the assistance of aircraft in distress in its territory in adherence to Article 25 of the Chicago Convention

Step	Proposed action	Action office	Evidence Reference	Estimated implementation date (EID)	Revised implementation date (EID)	Date of completion	Progress
5	Submit a draft bill of the draft aviation law to the consideration of the office of the president of the republic	Office of the Minister of transport	1. Letter of submission 2. Draft bill of the draft aviation law	12/08/2024			Not started
6	Submit the bill for the revision aviation law to the parliament	Office of the president of the republic	1. Letter of submission 2. The Bill	2/12/2024			Not started
7	Adopt the bill revising the aviation law	The parliament	1. Bill adopted	23/12/2024			Not started

— Addressing SAR findings

➤ CAP TABLE-EXAMPLE

PQ 7.005 Finding: State has not promulgated primary aviation legislation to facilitate the assistance of aircraft in distress in its territory in adherence to Article 25 of the Chicago Convention

Step	Proposed action	Action office	Evidence Reference	Estimated implementation date (EID)	Revised implementation date (EID)	Date of completion	Progress
8	Promulgate the newly adopted aviation law	Office of the ministry of legal affairs	1. Aviation law promulgated	6/01/2025			Not started



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Thank You!