International Civil Aviation Organization

ICAO

Sixth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP–WHM/WG/6)

Bangkok, Thailand, 14 to 17 May 2024

Agenda Item 6:   Any Other Business

ICAO USOAP CMA AND AGA FINDINGS IN WHM

(Presented by the Secretariat)

SUMMARY

This paper discusses USOAP CMA Effective Implementation (EI) scores of States and APAC Region in Wildlife Hazard Management (WHM) related Protocol Questions under Aerodromes and Ground Aids (AGA) area.

1.   INTRODUCTION

1.1   The USOAP CMA aimed at assessing Contracting States' capabilities to ensure an effective oversight of the aviation systems through the implementation of the eight critical elements of a safety oversight system. These critical elements include in particular:

The *"Establishment CEs"*:

Critical Element (CE) 1 – Primary aviation legislation

Critical Element (CE) 2 – Specific operating regulations

Critical Element (CE) 3 – State system and functions

Critical Element (CE) 4 – Qualified technical personnel

Critical Element (CE) 5 – Technical guidance, tools and provision of safety-critical information

The *"Implementation CEs"*:

Critical Element (CE) 6 – Licensing, certification, authorization and approval obligations

Critical Element (CE) 7 – Surveillance obligations

Critical Element (CE) 8 – Resolution of safety issues

1.2   The USOAP CMA focused on eight audit areas as follows:

1)   Primary aviation legislation and specific operating regulations (LEG);

2)   Civil aviation organization (ORG);

3)   Personnel licensing and training (PEL);

4)   Aircraft operations (OPS);

5)   Airworthiness of aircraft (AIR);

6)   Aircraft accident and incident investigation (AIG);

7)   Air navigation services (ANS); and

8)   Aerodromes and ground aids (AGA)

1.3   ICAO launched the third edition of the *Safety Oversight Manual (Doc 9734), Part A — The Establishment and Management of a State Safety Oversight System*. It is expected that this manual will assist States in establishing and implementing their safety oversight systems.

1.4   The *Universal Safety Oversight Audit Programme Continuous Monitoring Manual (Doc 9735)* provides detailed information about USOAP CMA, specifically the policy, procedures and guidance on the management and conduct of programme activities under the CMA. The Doc 9735 is available at https://soa.icao.int/USOAPLibrary/Library.aspx.

2.   DISCUSSION

ICAO USOAP CMA activities in APAC States in 2023

2.1   The USOAP CMA Activity Plan, which is issued as an Electronic Bulletin and posted on ICAO-NET twice a year, lists the scheduled USOAP CMA activities and can be accessed at ICAO secure portal (https://soa.icao.int/USOAPLibrary/Library.aspx). ICAO Electronic Bulletin (EB) 2024/2 dated 26 January 2024 is provided in **Attachment A**.

2.2   States are selected for CMA audits and ICVMs based on various factors, including risk indicators, previous audit results, deferrals, the level of activities in the State and progress made by States in resolving identified deficiencies. ICAO also conducts ICVMs for States with a Significant Safety Concern (SSC), once sufficient information is received indicating that the SSC has been resolved.

2.3   Each year, ICAO also carries out a number of off-site validation activities for States which have satisfactorily addressed certain findings (mostly related to Critical Elements 1 to 5) in the relevant audit areas.

2.4   In 2023, two CMA audits (including 1 focused audit), one ICVM and one SSP Implementation Assessment (SSPIA) were conducted in APAC States:

Dates (2022)	States			
	ICVM	Audit	Off-site validation	SSP Implementation Assessment
14 to 26 Jun 2023		Papua New Guinea		
30 Aug to 11 Sep 2023				Australia
5 to 7 Sep 2023; 12 to 19 Sep 2023		Australia (Focused Audit)		
2 to 9 Oct 2023	Cambodia			

Table 1: USOAP CMA activities conducted in 2023 in APAC States

2.5   ICAO planned to conduct following USOAP CMA activities (three Audits and one ICVM) in the Asia and Pacific States in 2024:

Dates (2022)	States			
	ICVM	Audit	Off-site validation	SSP Implementation Assessment
16 to 30 April 2024		China		
15 to 27 May 2024		Viet Nam		
05 to 12 Jun 2024	Pakistan			
15 to 27 Oct 2024		Bangladesh		

Table 2: USOAP CMA activities planned in 2024 for APAC States

2.6   ICAO conducted the USOAP CMA Workshop for Asia and Pacific States from 30 April to 02 May 2024 in APAC Office, Bangkok, Thailand. 108 virtual and 84 in-person participants attended the workshop.

ICAO USOAP CMA results in WHM related PQs in AGA Area

2.7   There are 5 PQs related to WHM in 2020 USOAP CMA PQ Checklist under AGA Area as shown in the Table 1 below.:

PQs	Description of PQ	CE	PPQ
8.328	Has the State developed industry guidance material to assist aerodrome operators to develop a wildlife (birds and animals) strike hazard study or assessment for each of their aerodromes?	CE-5	No
8.329	Does the State collect and forward wildlife strike reports to ICAO?	CE-8	No
8.331	Does the State ensure that aerodrome operators take appropriate action to decrease the hazard of wildlife strikes?	CE-6	No
8.333	Has the State promulgated regulations to: a) require a wildlife (birds and animals) strike hazard study or assessment for each of its aerodromes, and b) control the development of facilities likely to attract wildlife on or in the vicinity of an aerodrome?	CE-1	No
8.335	Has the State established and implemented a process to mitigate against an increase or potential increase in the wildlife strike hazard due to land use development likely to attract wildlife around an aerodrome?	CE-8	No

Table 3: WHM Related PQs under AGA Area

2.8   The APAC Average WHM EI scores derived from ICAO USOAP CMA Online Framework (OLF) and iSTARS 4.0 PQ Tester for years 2018 (as baseline data) and April 2024 are shown in the table below:

S. No	Year	**APAC** Av. EI in WHM	**Global** Av. EI in WHM	Remarks
1	April 2024	**50.26** (Adjusted EI)	61.83	5 PQs (2020 USOAP CMA PQ Checklist)
2	June 2018	57.5	-	6 PQs (2017 USOAP CMA PQ Checklist)

Table 2:   APAC Average EI Scores for WHM PQs
[Source: USOAP CMA OLF/ iSTARS 4.0 - PQ Tester]

2.9   EIs of the individual Asia and Pacific States for WHM related PQs in AGA Area derived from iSTARS 4.0 are provided in **Attachment B** to this Working Paper and illustrated in Table 3 below.

State's USOAP EI in WHM under AGA Area		
USOAP EI (In Per Cent)	**Number of States**	**Remarks**
100	9	**Australia**, Brunei, DPR Korea, Fiji, Japan, Maldives, Mongolia, **Singapore**, Sri Lanka
80	3	Bhutan, China, India
60	6	Indonesia, Pakistan, Papua New Guinea, Rep. of Korea, Thailand, Tonga
40	11	Bangladesh, Lao PDR, Malaysia, Myanmar, Nepal, New Zealand, Palau, Philippines, Samoa, Solomon Islands, Viet Nam
20	1	Nauru
0	9	Afghanistan, Cambodia, Cook Islands, Kiribati, Marshall Islands, Micronesia, Timor-Leste, Tuvalu, Vanuatu

Table 3: APAC States's EI Scores for WHM PQs
[Source: USOAP CMA OLF/ iSTARS 4.0 - PQ Tester]

2.10   ICAO Global Aviation Safety Plan (GASP) 2023-2025 (Doc 10004) established that each member State should achieve 75% EI in each CE by 2024. As there are **28 States** in APAC Region with EI less than 75% in WHM related PQs and corresponding CEs (Table 3 above refers), these State would require more resources and efforts to enhance their EI and meet the GASP target by 2024.

3.   ACTION BY THE MEETING

3.1   The Meeting is invited to note the information contained in this paper and:

   a)   encourage States with EI less than 80% to put more resources and efforts to improve EI to meet the 75% of GASP target by 2024; and

   b)   request States to approach respective COSCAPs, Pacific Aviation Safety Office (PASO) or ICAO APAC Office if State(s) require assistance in WHM area.

— — — — — — — —

International Civil Aviation Organization

ELECTRONIC BULLETIN

For information only

EB 2024/2   26 January 2024

ICAO UNIVERSAL SAFETY OVERSIGHT AUDIT PROGRAMME — ACTIVITY PLAN

1.   The International Civil Aviation Organization (ICAO) Universal Safety Oversight Audit Programme (USOAP) Activity Plan, published twice a year and posted on the USOAP Continuous Monitoring Approach (CMA) online framework (https://www.icao.int/usoap), lists the completed and planned CMA audits, ICAO Coordinated Validation Missions (ICVMs), State Safety Programme Implementation Assessments (SSPIAs), off-site validation activities and workshops for the past and current year (see Attachments A and B for details). The activity plan published in January constitutes an update to the activity plan published in June of the previous year. The 2024 activity plan was first published on 29 June 2023 through Electronic Bulletin (EB) 2023/29.

2.   States are selected for CMA audits and ICVMs based on various factors, including risk indicators, previous audit results, deferrals, the level of activities in the State and progress made by States in resolving identified deficiencies. ICAO also conducts ICVMs for States with a Significant Safety Concern (SSC), once sufficient information is received indicating that the SSC has been resolved.

3.   To support the USOAP CMA objectives, States are strongly urged to accept the dates of a scheduled USOAP activity and to refrain from making deferral requests. Any such requests shall be subject to the provisions of Article 14 of the Memorandum of Understanding (MOU) signed with ICAO regarding the USOAP CMA and of Chapter 3, 3.5.4 of ICAO Doc 9735 (5th Edition — 2023).

4.   Each year, ICAO also carries out a number of off-site validation activities for States which have satisfactorily addressed certain findings (mostly related to Critical Elements 1 to 5) in the relevant audit areas. Off-site validation activities completed in 2023 are shown in Attachment A.

5.   In 2023, 15 CMA audits (including 3 focused audits) and 6 ICVMs were completed, along with one off-site validation activity and 3 SSPIAs.

6.   For 2024, 20 USOAP CMA activities have been scheduled (excluding off-site validation activities): 17 CMA audits and 3 ICVMs. States interested in receiving a CMA activity (either on-site or off-site), including on a cost-recovery basis for on-site activities, are advised to contact the Deputy Director, Monitoring, Analysis and Coordination, Air Navigation Bureau by email at USOAPInbox@icao.int. Such requests will be considered based on various factors listed in paragraph 2 above, as well as available ICAO resources.

7.　　　　　In 2023, 5 USOAP CMA workshops were conducted in ICAO Regional Offices and Member States. For 2024, 5 workshops have been tentatively scheduled.

Enclosures:
　　A — Status of USOAP CMA Activities in 2023
　　B — USOAP CMA Activity Plan for 2024

Issued under the authority of the Secretary General

ATTACHMENT A to EB 2024/2

USOAP CMA Activities — Status for 2023

Note 1.— States and organizations are listed in alphabetical order and by region. Organizations come after States.

Note 2.— Dates for audits, ICVMs, and SSPIAs represent the on-site or virtual activity dates. For off-site validation activities, the dates represent the publication dates of the final reports.

State/Organization	Type of Activity	Dates	Status
Asia and Pacific (APAC) Region			
Australia	SSPIA	30 Aug to 11 Sep 2023	Completed
	Focused audit[1]	5 to 7 Sep 2023; 12 to 19 Sep 2023	Completed
Bangladesh	Audit	13 to 25 Jun 2023	Postponed to 2024[2]
Cambodia	ICVM	2 to 9 Oct 2023	Completed
China	Audit	15 to 29 March 2023	Postponed to 2024[3]
Papua New Guinea	Audit	14 to 26 Jun 2023	Completed
Eastern and Southern African (ESAF) Region			
Botswana	Audit	14 to 23 Feb 2023	Postponed to 2024[2]
South Africa	Audit	22 Mar to 3 Apr 2023	Completed
Uganda	Audit	6 to 18 Sep 2023	Completed
Zimbabwe	ICVM	21 to 28 Jun 2023	Completed
European and North Atlantic (EUR/NAT) Region			
Czechia	Focused audit	2 to 6 Oct 2023	Completed
	SSPIA	9 to 19 Oct 2023	Completed
Greece	Audit	6 to 18 Dec 2023	Completed
Kyrgyzstan	Audit	13 to 25 Sep 2023	Completed
Morocco	ICVM	18 to 25 Oct 2023	Completed
Türkiye	Audit	13 to 25 Sep 2023	Postponed to 2024[2]
Uzbekistan	Audit	17 to 29 May 2023	Completed
Middle East (MID) Region			
Egypt	Off-site validation	May 2023	Completed
Oman	Audit	10 to 19 Apr 2023	Postponed to 2024[2]
	ICVM	7 to 16 Nov 2023	Completed
Sudan	Audit	7 to 19 Nov 2023	Postponed[4]
North American, Central American and Caribbean (NACC) Region			
Belize	Audit	22 Nov to 4 Dec 2023	Completed
Canada	Audit	31 May to 14 Jun 2023	Completed
Organisation of Eastern Caribbean States (OECS)	ICVM	29 Nov to 7 Dec 2023	Completed

---

[1] Conducted in two parts.

[2] Postponed at the request of the State.

[3] Postponed due to the COVID-19 pandemic.

[4] Postponed in light of the security situation of the State.

State/Organization	Type of Activity	Dates	Status
South American (SAM) Region			
Argentina	ICVM	13 to 17 Feb 2023	Completed
Brazil	SSPIA	17 to 29 May 2023	Completed
	Focused audit	31 May to 7 Jun 2023	Completed
Ecuador	Audit	6 to 18 Sep 2023	Completed
Western and Central African (WACAF) Region			
Democratic Republic of the Congo	Audit	1 to 10 Feb 2023	Completed
Nigeria	Audit	30 Aug to 11 Sep 2023	Completed
Senegal	ICVM	22 Feb to 1 Mar 2023	Postponed to 2024[1]
Sierra Leone	Audit	31 May to 12 Jun 2023	Completed

USOAP CMA Workshops — Status for 2023

Note.— Workshops are listed in chronological order.

Location	Region	Dates
Brazil (virtual, SSPIA)	SAM	6 to 7 Feb 2023
Australia (virtual, SSPIA)	APAC	1 to 3 May 2023
Incheon, Republic of Korea (cost-recovery)	APAC	6 to 8 Nov 2023
Dakar, Senegal (regional)	WACAF	4 to 6 Dec 2023
Mexico City, Mexico (regional)	NACC	11 to 13 Dec 2023
Bangkok, Thailand (regional)	APAC	Postponed to 2024

— — — — — — —

---

[1] Postponed at the request of the State.

USOAP CMA Activities — Planning Status for 2024

Note 1.— States and organizations are listed in alphabetical order and by region. Organizations come after States.

Note 2.— The dates represent the on-site activity dates and may be subject to last-minute change.

State/Organization	Type of Activity	Dates
Asia and Pacific (APAC) Region		
Bangladesh	Audit	15 to 27 Oct 2024
China	Audit	16 to 30 Apr 2024
Pakistan	ICVM	5 to 12 Jun 2024
Viet Nam	Audit	15 to 27 May 2024
Eastern and Southern African (ESAF) Region		
Botswana	Audit	18 to 27 Jun 2024
Namibia	Audit	6 to 18 Mar 2024
Zambia	Audit	21 Aug to 2 Sep 2024
European and North Atlantic (EUR/NAT) Region		
Albania	ICVM	11 to 18 Dec 2024
Algeria	Audit	16 to 28 Jan 2024 Postponed[1]
Armenia	Audit	24 Jan to 5 Feb 2024
Hungary	Audit	6 to 18 Nov 2024
Türkiye	Audit	4 to 16 Sep 2024
Middle East (MID) Region		
Egypt	Audit	26 Nov to 8 Dec 2024
Oman	Audit	23 Jan to 1 Feb 2024
North American, Central American and Caribbean (NACC) Region		
Mexico	Audit[2]	14 to 27 Feb 2024 6 to 14 Mar 2024
United States	Audit	10 to 24 Jul 2024
South American (SAM) Region		
Guyana	Audit	29 May to 10 Jun 2024
Panama	Audit	18 to 30 Sep 2024
Western and Central African (WACAF) Region		
Benin	Audit	17 to 29 Jul 2024
Guinea	Audit	9 to 21 Oct 2024
Senegal	ICVM	17 to 24 Apr 2024

---

[1] Postponed due to the State's lack of timely response.

[2] To be conducted in two parts.

USOAP CMA Workshops – Planning Status for 2024

Note. — Workshops are listed in chronological order.

Location	Region	Dates
Bangkok, Thailand (regional)	APAC	30 Apr to 2 May 2024
Cairo, Egypt (regional)	MID	8 to 10 Oct 2024
Dar es Salaam, United Republic of Tanzania (cost-recovery)	ESAF	TBD
Nairobi, Kenya (regional)	ESAF	TBD
Paris, France (regional)	EUR/NAT	TBD

— END —

S. No.	State	WHM Protocol Question (Satisfactory = 1, Unsatisfactory = 0)					Total (Satisfactory)	Average EI (%)	Average EI Range (%)	Lastest USOAP CMA (Source: USOAP Report)	
		8.328 (CE-5)	8.329 (CE-8)	8.331 (CE-6)	8.333 (CE-1)	8.335 (CE-8)				Activity	Date
								State's USOAP EI in WHM AGA Area			
								(Date: 19 April 2024)			
								Source: iSTARS 4.0, PQ Tester			
1	Afghanistan	0	0	0	0	0	0	0	0	Documentation-base Audit	02-16/12/2019
2	Australia	1	1	1	1	1	5	100	81-100	Focus Audit	12-19/09/2023
3	Bangladesh	0	1	1	0	0	2	40	21-40	ICVM	19-27/09/2017
4	Bhutan	1		1	1	1	4	80	61-80	ICVM	7-16/08/2018
5	Brunei	1	1	1	1	1	5	100	81-100	CMA Audit	17/02-01/03/2007
6	Cambodia	0	0	0	0	0	0	0	0	CMA Audit	10-21/12/2018
7	China	1	0	1	1	1	4	80	61-80	CMA Audit	20/03-03/04/2007
8	Cook Islands						0	0	0	Nill AGA Activity	
9	DPR Korea	1	1	1	1	1	5	100	81-100	CMA Audit	26/05-04/06/2008
10	Fiji	1	1	1	1	1	5	100	81-100	ICVM	27/08-04/09/2019
11	India	1	1	1	0	1	4	80	61-80	ICVM	09-16/11/2022
12	Indonesia	1	1	0	1	0	3	60	41-60	ICVM	10-18/10/2017
13	Japan	1	1	1	1	1	5	100	81-100	CMA Audit	14-23/06/2010
14	Kiribati						0	0	0		Nil USOAP Activity
15	Lao PDR	1	0	1	0	0	2	40	21-40	ICVM	21-27/04/2015
16	Malaysia	0	0	1	0	1	2	40	21-40	CMA Audit	2-12/5/2016
17	Maldives	1	1	1	1	1	5	100	81-100	ICVM	16-22/06/2014
18	Marshall Islands	0	0	0	0	0	0	0	0	CMA Audit	25-28/05/2010
19	Micronesia	0	0	0	0	0	0	0	0	CMA Audit	13-17/12/2010
20	Mongolia	1	1	1	1	1	5	100	81-100	CMA Audit	28/06-07/07/2010
21	Myanmar	1	0	0	1	0	2	40	21-40	CMA Audit	100-21/12/2018
22	Nauru	0	0	0	0	1	1	20	1-20	CMA Audit	03-03/03/2008
23	Nepal	1	1	0	0	0	2	40	21-40	CMA Audit	13-25/04/2022
24	New Zealand	1	0	1	0	0	2	40	21-40	CMA Audit	05-15/12/2016
25	Pakistan	1	1	0	1	0	3	60	41-60	CMA Audit	29/11-10/12/2021
26	Palau	1	0	0	1	0	2	40	21-40	CMA Audit	22-26/11/2010
27	Papua New Guinea	1	1	1	0	0	3	60	41-60	CMA Audit	14-26/06/2023
28	Philippines	1	1	0	0	0	2	40	21-40	ICVM	30/05/08/06/2017
29	Rep. of Korea	0	1	1	0	1	3	60	41-60	CMA Audit	13-22/05/2008
30	Samoa	1	0	1	0	0	2	40	21-40	CMA Audit	11-16/02/2010
31	Singapore	1	1	1	1	1	5	100	81-100	Virtual ICVM	16-19/11/2021
32	Solomon Islands	1	0	0	0	1	2	40	21-40	CMA Audit	27/03-4/04/2006
33	Sri Lanka	1	1	1	1	1	5	100	81-100	CMA Audit	25/10-04/11/2010
34	Thailand	1	1	0	1	0	3	60	41-60	ICVM	14-21/05/2019
35	Timor Leste		0	0	0	0	0	0	0	CMA Audit	07-10/12/2010
36	Tonga	1	0	1	0	1	3	60	41-60	ICVM	18-27/11/2019
37	Tuvalu						0	0	0		Nil USOAP Activity
38	Vanuatu	0	0	0	0	0	0	0	0	ICVM	18-27/11/2019
39	Viet Nam	1	0	0	1	0	2	40	21-40	ICVM	15-21/06/2016
APAC WHM EI Average (19 April 2024)								50.26			

PQ/CE	Description of PQ	PPQ
8.328 (CE-5)	Has the State developed industry guidance material to assist aerodrome operators to develop a wildlife (birds and animals) strike hazard study or assessment for each of their aerodromes?	No
8.329 (CE-8)	Does the State collect and forward wildlife strike reports to ICAO?	No
8.331 (CE-6)	Does the State ensure that aerodrome operators take appropriate action to decrease the hazard of wildlife strikes?	No
8.333 (CE-1)	Has the State promulgated regulations to: a) require a wildlife (birds and animals) strike hazard study or assessment for each of its aerodromes, and b) control the development of facilities likely to attract wildlife on or in the vicinity of an aerodrome?	No
8.335 (CE-8)	Has the State established and implemented a process to mitigate against an increase or potential increase in the wildlife strike hazard due to land use development likely to attract wildlife around an aerodrome?	No