



ICAO

International Civil Aviation Organization

The Eighth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP-WHM/WG/8)

Bangkok, Thailand, 25 to 28 May 2026

Agenda Item 4: Progress Update on Tasks Assigned to States and International/Regional Organizations

REVIEW/RESEARCH STATES PRIMARY ACT AND REGULATIONS REGARDING WHM

(Presented by WORLDBIRDSTRIKE ASSOCIATION (LEAD), SUPPORTED BY AIRPORTS COUNCIL INTERNATIONAL AND AUSTRALIA)

SUMMARY

This paper presents and validates the current status of WHM regulations across APAC States and identify States requiring support in developing or updating WHM regulatory frameworks.

1. INTRODUCTION

1.1 Wildlife Hazard Management (WHM) remains a critical aviation safety priority within the Asia and Pacific (APAC) Region. The increasing growth of aviation operations, airport expansion projects, urbanisation, waste management challenges, and changing wildlife movement patterns continue to elevate wildlife strike risk to aircraft operations East Asian–Australasian Flyway (EAAF).

1.2 ICAO Annex 14, Volume I requires States to establish procedures and measures for reducing the risk of collisions between wildlife and aircraft at aerodromes. ICAO guidance material contained in Airport Services Manual (Doc 9137), Part 3 – Wildlife Hazard Management and PANS-Aerodromes (Doc 9981) further outline the framework for implementing effective Wildlife Hazard Management Programmes (WHMPs).

1.3 In support of regional harmonisation and regulatory benchmarking, a collaborative review of existing WHM regulations and guidance materials across APAC States was undertaken through contributions from ACI, AAWHG, India, Thailand, Indonesia, Philippines and other regional stakeholders.

2. DISCUSSION

2.1 The survey reviewed publicly available WHM regulations and legislative frameworks across APAC States, including references to:

- Primary aviation legislation and WHM regulations;
- ICAO Annex 14 alignment;
- Mandatory Wildlife Hazard Management Programmes (WHMPs);
- Integration with Safety Management Systems (SMS);
- Airport-specific WHM obligations;

- Compliance and enforcement mechanisms; and
- Date of latest regulatory update.

2.2 The review identified varying levels of maturity across the region. Several States have comprehensive and modern WHM regulatory frameworks aligned with ICAO guidance, while others rely on general aerodrome regulations or have limited publicly available WHM documentation.

2.3 The collaborative exercise highlighted the importance of regional cooperation in sharing WHM regulatory references and identifying gaps where States may benefit from technical guidance or assistance.

2.4 The spreadsheet action register (**Attachment A**) compiled by the contributing members is intended to serve as a living reference document for APAC States to review and validate.

2.5 The survey exercise also identified that some States may have current internal WHM regulations or guidance documents that are not publicly available or accessible online. Accordingly, State confirmation is required to ensure the accuracy and currency of the information captured.

2.6 The exercise supports broader ICAO APAC objectives relating to:

- Standardisation and harmonisation of WHM frameworks;
- Improved regulatory oversight;
- Enhanced wildlife strike reporting and data analysis;
- Strengthened airport WHMP implementation; and
- Regional capacity building and collaboration.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the collaborative work undertaken by ACI, AAWHG, India, Thailand, Indonesia, Philippines and supporting contributors in compiling the regional WHM regulation survey;
- b) encourage APAC States to review and validate the information listed against their respective State within the spreadsheet action register (**Attachment A**);
- c) request States that do not currently have WHM regulations or guidance material listed to:
 - confirm whether a current WHM regulation, advisory circular, manual or guidance document exists; or
 - advise if no formal WHM regulatory framework currently exists;
- d) encourage States requiring assistance in developing or updating WHM regulations, guidance material or WHMP frameworks to engage with the APAC regional WHM working group and supporting industry stakeholders for technical support and collaborative drafting assistance; and
- e) support continued regional collaboration to improve harmonisation of Wildlife Hazard Management regulatory frameworks throughout the APAC Region.

WHM Regulation and Legislation Survey

S.NO	Country/State	Primary / Regulatory WHM Authority (eg. CAA, DGCA or such name)	Title of Primary Act (Aviation Safety Act 20XX)	WHM Mentioned (Y/N)	Reference/Section (eg. Sec. 12.3 details tbc)	Regulations Specific to Airports?	ICAO Annex 14 Alignment (Y/N)	WHMP Mandatory (Y/N)	Linked to SMS (Y/N)	Compliance/Enforcement Mechanism (eg. Annual audit by CAA)	Last Update (Year)	Source/Link (website link details)	Additional Questions ** (ref column Q)	Comments/Notes
1	Afghanistan													
2	Australia	Civil Aviation Safety Authority (CASA)	Civil Aviation Safety Act 1988	Yes	Civil Aviation Safety Regulations (CASRs) - Part 139 (Aerodromes) Manual of Standards 2019 - Chapter 17. CASA Advisory Circular (AC) 139-C-16	Yes	Yes	Yes	Yes	Transport Safety Investigation Regulations 2003 (Australian Transport Safety Bureau), CASA Aerodrome technical inspection program, annual aerodrome manual validation.	2024			Additional guidance contained in Guideline C of the National Airports Safeguarding Framework
3	Bangladesh	CIVIL AVIATION AUTHORITY OF BANGLADESH GM 14-34	Guidance Manual on Wildlife Hazard Mitigation & Management System	Yes	Guidance Manual on Wildlife Hazard Mitigation & Management System Version-3.0 27 June 2024	Yes	Yes	Yes	Yes	CAA Bangladesh	2024	http://www.caab.gov.bd/regulator/aga/gmaga/GM%2014-34.pdf		
4	Bhutan	Bhutan WHM Guidance 2024	Guidelines for WHM at Aerodromes 2024	Yes	BCAA/AGA/AC-GM/24	Yes	Yes	Yes	Yes		2024			
5	Brunei	WHM Guidance	Procedure ADR 003 (wildlife hazard management)	Yes	Procedure ADR 003: Wildlife Hazard Management at Aerodromes (Version 1.0, April 2024)						2024			
6	Cambodia**	unable to find link			Law on Civil Aviation of the Kingdom of Cambodia									No Public Info found
7	China	《运输机场鸟击及动物侵入防范管理办法》(Management Measures for Prevention of Bird Strikes and Animal Invasions at Transport Airports, 2022). 《运输机场鸟击及动物侵入防范方案（范本）》(Prevention Plan Template for Bird Strikes and Animal Intrusions at Transport Airports, 2024) Issued May 7, 2024. Provides a structured 13-chapter template for airports to create their customized wildlife hazard management plans.	Bird Strike and Animal Intrusion Prevention Plan for Transport Airports. No. AC-140-CA-2024-03 issue date 7 May 2024. Civil Aviation Regulation 2022. Notice to the Issuance of the "Measures for the Prevention and Management of Birdstrike and Animal Intrusion at Transport Airport. To all regional CAA, all transport airline companies, China Academy of Aviation Sciences.	Yes	https://www.caac.gov.cn/XXGK/XXGK/GFXWJ/202405/P020240521500915855531.pdf	Yes	Yes	Yes	Yes	CAA China		https://www.caac.gov.cn/XXGK/XXGK/GFXWJ/20201/P020220209322797315356.pdf https://www.caac.gov.cn/XXGK/XXGK/GFXWJ/202405/P020240521500915855531.pdf		No Public Info found

**Aligned with ICAO?
Or Is the focus include only civil aviation contexts or is there a broader environmental framework impacting aviation?

** Cambodia's Civil Aviation Authority (CAA) doesn't publish its own separate "CAA documentation" but instead follows the International Civil Aviation Organization (ICAO) standards for Airport Services Manual, Part 3 - Wildlife Hazard Management (Doc 9137) and PANS-Aerodromes (Doc 9981).

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8	Cook Islands	Issued January 13, 2022. Establishes the regulatory framework requiring airport management entities to implement comprehensive prevention protocols.												
9	Fiji	Civil Aviation Authority of Fiji GUIDANCE MATERIAL Wildlife Hazard Management	Civil Aviation Authority of Fiji GUIDANCE MATERIAL Wildlife Hazard Management (GM – WHM) Edition 1 20 August 2019		https://www.caaf.org.fj/wp-content/uploads/2024/10/Guidance-Material-Wildlife-Hazard-Management.pdf	Yes	Yes	Yes	Yes	CAA Fiji	20-Aug-19	https://www.caaf.org.fj/wp-content/uploads/2024/10/Guidance-Material-Wildlife-Hazard-Management.pdf		
10	India	DGCA	AERODROME ADVISORY CIRCULAR(Subject: Management of Potential Wildlife Hazards at Licenced at Aerodromes)	Yes	AD AC NO. 1 of 2022 12th August 2022	Yes	Yes	Yes	Yes	Yes	2022	https://www.dgca.gov.in/digov-portal/?baseLocale=en_US?dynamicPage=dynamicPdf/KYmBeVujNUhasuS1WqP6hg%3D%3D&maincircularsRulesAerodromes/7/3321/viewDynamicRuleContentLv12		
11	Indonesia													
12	Japan													
13	Kiribati	No Specific Guidance found												No Public Info found
14	Lao PDR	No Specific Guidance found												No Public Info found
15	Malaysia	WHM Guidance 2018	CAGM 1400 – Wildlife Hazard Management Programme								2018			
16	Maldives	MALDIVIAN CIVIL AVIATION REGULATIONS	MALDIVIAN CIVIL AVIATION REGULATIONS MCAR-139 Aerodrome Rules	Yes	MCAR-139 Aerodrome Rules, Subpart G - Wildlife Hazard Management	Yes	Yes	Yes	Yes	Yes	27-May-12	https://caa.gov.mv/attachments/Md0d1v55b9hR4Umgvwo7lCKgsZWZNR6Lf7iIN3.pdf		
17	Marshall Islands													
18	Micronesia													
19	Mongolia	WHM Guidance 2023	Advisory Circular – AC 139-16								2023			
20	Myanmar		Myanmar Aircraft Rules 2018	Yes	Chapter IX Aerodrome, Regulation 121 i) Obligation of Aerodrome Operator									
21	Nauru													

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** Japan's Civil Aviation Bureau (JCAB), acting as the Civil Aviation Authority (CAA) for Japan, relies on International Civil Aviation Organization (ICAO) standards and guidance for its Wildlife Hazard Management System documentation, as there is no readily available separate documentation for the system itself. The JCAB mandates that aerodrome operators develop and implement Wildlife Hazard Management Programs (WHMPs) in accordance with ICAO guidelines to mitigate wildlife risks at airports.

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22	Nepal	No Specific Guidance found	Guidance Material for Wildlife Hazards Management for Aerodrome Operator (AC/AD-03)											No Public Info found
23	New Zealand													
25	North Korea													
26	Palau													
27	Papua New Guinea													
28	Pakistan													
29	Phillipines	WHM_Guidance_2012	Advisory Circular AC 139-05-A Establishment of Wildlife Hazard Management at Airports by Aerodrome Operators							12				
30	Samoa													
31	South korea	South Korea Regulation												No Public Info found
32	Singapore													
34	Sri Lanka	WHM_Guidance_2023	Document SLCAIS-030		3.1 Safety Requirements for Service Providers SMS						2023			
35	Solomon Islands													
36	Taiwan	No Specific Guidance found												No Public Info found
37	Thailand	No Specific Guidance found												No Public Info found
38	Tonga													
39	Timor East													
40	Tuvalu													
41	Tonga													
42	Vanuatu													

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