International Civil Aviation Organization

Eighth Meeting of the Aerodromes Operations and Planning Sub-Group (AOP/SG/8)

Bangkok, Thailand, 15 to 19 July 2024

Agenda Item 4: **Provision of AOP in the Asia/Pacific Region**

— ☐**Reports of Working Group/Task Force Meetings**

REPORT ON THE SIXTH MEETING OF THE ASIA/PACIFIC WILDLIFE HAZARD MANAGEMENT WORKING GROUP (AP-WHM/WG/6)

(Presented by Chairman of AP-WHM/WG)

SUMMARY

This paper presents the Report of the Sixth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP-WHM/WG/6) held in Bangkok, Thailand from 14 to 17 May 2024.

Strategic Objectives:
  A*: **Safety** – Enhance global civil aviation safety*
  B: ***Air Navigation Capacity and Efficiency** — Increase the capacity and improve the efficiency of the global aviation system*
  E: ***Environmental Protection** – Minimize the adverse environmental effects of civil aviation activities*

1. INTRODUCTION

1.1   The Sixth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP–WHM/WG/6) was held in Bangkok, Thailand from 14 to 17 May 2024.

1.2   The Meeting was attended by 61 participants from 12 Member States, Association of Asia Pacific Airlines (AAPA), The International Federation of Airline Pilot's Associations (IFALPA), World Birdstrike Association (WBA), Mastermark Pte. Ltd and ICAO. AVEM Insight and Scarecrow Group Ltd. participated as observers.

1.3   There were 10 Working Papers, 14 Information Papers and 6 Presentations considered by AP-WHM/WG/6.

1.4   The full report of AP-WHM/WG/6 is available on ICAO APAC Office website at https://www.icao.int/APAC/Meetings/Pages/2024-AP-WHM-WG-6.aspx

1.5   **Attachment A** to this paper provides a summary report on the outcome of AP-WHM/WG/6 for review by AOP/SG/8.

1.6   Appendices referred in this Working Paper and **Attachment A** carry the same Appendix numbers as those in the Report of AP-WHM/WG/6 for easy reference.

2.   DISCUSSION

2.1   Some important discussions of the AP-WHM/WG/6 Meeting are summarized below.

Innovative Techniques for Mitigating Wildlife Hazards at Airports

2.2   The World Birdstrike Association (WBA) presented the adoption of innovative meaningful techniques to mitigate wildlife hazards at airports, particularly bird/wildlife strikes. Airports need a comprehensive, meaningful data-driven approach to assess and rank risks and patterns from different species, utilising appropriate and suitable technologies for monitoring wildlife, analysing historical incident data, and understanding seasonal and behavioral patterns. By implementing innovative deterrents, habitat management, and improved communication, airports can significantly reduce wildlife hazards and enhance aviation safety. Airports were encouraged to integrate these technologies/techniques into their programmes to maximise the effectiveness of monitoring and reporting systems.

2.3   AP-WHM/WG/6 acknowledged that a wildlife hazard study should be conducted at the planning stage of any new airport and emphasized the requirement of continuous monitoring of wildlife data and continuous update of an airport WHM Plan due to the changes in the habitat. AP-WHM/WG/6 encouraged airports to submit case histories of successful initiatives, which would be compiled and shared to promote knowledge exchange and innovation in airport management.

ICAO Asia-Pacific Wildlife Hazard Management Go-Team Methodology

2.4   At AP-WHM/WG/5, the Working Group agreed to develop a WHM Go-Team Assistance Mission Programme (Task 5/5) via the AP-WHM/WG Terms of Reference (Second Amendment to AP/WHM-WG ToR) approved by AOP/SG/7. The Assistance Mission Programme/Template for States, known as the 'Wildlife Hazard Management Go-Team' approach, is designed for adoption and use by States within the ICAO Asia-Pacific Region. It specifically provides a templated timeline for a 1-week Go-Team mission, supplemented by pre-and post-mission activities and elements. The WHM Go-Team approach focusses particularly on the establishment of national WHM committees and a national WHM programme.

2.5   Australia, India, Thailand, ACI and WBA developed the Wildlife Hazard Management (WHM) Go-Team Mission Programme Document to attach to the Asia/Pacific WHM Go-Team Methodology which was approved by APANPIRG/34 in December 2023 as per recommendation of AOP/SG/7 in July 2023.

2.6   AP-WHM/WG/6 formulated the following Draft Conclusion for adoption by AOP/SG/8 and for further consideration by APANPIRG/35:

Draft Conclusion AP–WHM/WG/6–1: ICAO Asia-Pacific WHM Go-Team Assistance Mission Programme Document	
What: That • States with needs to enhance WHM be encouraged and invited to host WHM Go-Team Assistance Mission; and • The ICAO Asia/Pacific WHM Go Team Assistance Mission Programme Document presented in **Appendix A** to the Report of AP-WHM/WG/6 be endorsed by AOP/SG/8 for consideration by APANPIRG/35. • After approval by APANPIRG/35 the ICAO Asia/Pacific WHM Go Team Assistance Mission Programme Document be included as an Appendix to the ICAO Asia/Pacific WHM Go-Team Methodology and published on ICAO APAC Website.	Expected impact: ☒ Political / Global ☐ Inter-regional ☒ Economic ☐ Environmental ☒ Ops/Technical
Why: To assist States in WHM	Follow-up: ☒Required from States
When: 27-Nov-24	Status: Draft to be adopted by PIRG
Who: ☒Sub groups ☒APAC States ☐ICAO APAC RO ☐ICAO HQ ☐Other: XXXX	

ICAO USOAP CMA and AGA Findings in WHM

2.7   AP-WHM/WG/6 noted ICAO USOAP CMA activities conducted in APAC States in 2023 and those planned for 2024.

2.8   AP-WHM/WG/6 also noted the USOAP Effective Implementation (EI) scores of the individual APAC States for WHM related PQs derived from iSTARS 4.0, PQ Tester and provided in **Appendix B**. APAC average WHM EI in AGA area was 50.26 % as compared to the global average of 61.83% as of April 2024.

2.9   The meeting encouraged APAC States/Administrations with EI less than 80% in WHM related PQs to allocate more resources and efforts to improve EI to meet the 75% of GASP target by 2024; and to approach respective COSCAPs or ICAO APAC Office, if State(s) require assistance in WHM.

Asia Pacific Guidance Materials and Custodian

2.10   Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials approved by the AOP/SG/7 and published on ICAO APAC Website at eDocuments under AGA heading could be accessed using URL: https://www.icao.int/APAC/Pages/eDocs.aspx. The list of GGMs developed by the AP-WHM/WG was provided as **Attachment B** to the above procedural document.

2.11   As the Expert Group (Australia, India, Thailand, ACI and WBA) developed the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document (**Appendix A** to the AP-WHM/WG/6 Report), and if endorsed by AOP/SG/8 and approved by APANPIRG/35 it would require to be included in the List of the GGMs as **Attachment B** of the **Appendix C** (Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials) to the AP-WHM/WG/6 Report.

2.12   AP-WHM/WG/6 Meeting unanimously agreed that Australia would be the custodian of the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document.

2.13   AP-WHM/WG/6 formulated the following Draft Decision for adoption by AOP/SG/8:

Draft Decision AP-WHM/WG/6 - 2: Updated List of Asia/Pacific Generic Guidance Materials Developed by the AP-WHM/WG with Details of the Custodians	
What: That, the *Attachment B* to the *Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials* (**Appendix C** to the Report of the AP-WHM/WG/6) be published on the ICAO APAC Website at eDocuments Webpage under the AGA heading after endorsement of the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document by AOP/SG/8 and adoption by APANPIRG/34.	Expected impact: ☐ Political / Global ☐ Inter-regional ☐ Economic ☐ Environmental ☒ Ops/Technical
Why: To incorporate in the list the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document with updated details of the custodian of the GGMs.	Follow-up: ☐Required from States
When: 19-Jul-24	Status: To be adopted by Subgroup
Who: ☒Sub groups ☐APAC States ☒ICAO APAC RO ☐ICAO HQ ☐Other: AP-AA/WG	

<u>Enhancing Aviation Safety and Efficiency: Recommendations for a more Risk Based Approach with Bird Strikes and Runway Closures</u>

2.14   AP-WHM/WG/6 noted the benefits of an enhanced use of a risk-based approach in determining runway closures arising from reported bird strikes. These measures are essential for minimizing disruptions, ensuring passenger safety, and enhancing overall airport operations.

<u>IBIS Focal Points for Asia and Pacific States</u>

2.15   AP-WHM/WG/6 noted and urged States to review the list of the IBIS Focal Points of Asia Pacific States (**Appendix E**) and provide additional contact details, if any, for inclusion in the list.

<u>AP-WHM/WG TOR and Task List</u>

2.16   AP-WHM/WG/6 Meeting reviewed the Task List, and the updated Task List provided in **Appendix F** to the Report of AP-WHM/WG/6**.**

<u>Information Papers and Presentations</u>

2.17   The following Information papers and presentations were considered by AP-WHM/WG/6:

        1)   List of Experts of Asia/Pacific Wildlife Hazard Management Working Group (IP/02);

2) Update from Australian Aviation Wildlife Hazard Group (AAWHG) 2023/24 and International Forum – 13-15 August 2024, Melbourne, Australia (IP/03);

3) Proposal to Submit Working Paper on Wildlife Hazard Management to Fourteenth Air Navigation Conference (AN-CONF/14) (IP/04);

4) Nocturnal Bird/Wildlife Hazard – an Emerging Problem for Airports Operations (IP/05);

5) Best Practices on Wildlife Hazard Management (IP/06);

6) Measures undertaken to minimize Jackal Menace at NSCBI Airport, Kolkata (IP/07);

7) An Overview of Wildlife Hazard Management Programme Implemented at Greenfield Manohar International Airport, Goa, India (IP/08);

8) State Action Plan for Establishment and Implementation of Wildlife Hazard Management Programme - Update (IP/09);

9) Monitoring and Reporting of Wildlife Strike using the CAAM Aviation Reporting System (CAReS) (IP/10);

10) Threats Posed by Insects (BEES) at Kuala Lumpur International Airport (KLIA) Terminal 1 & 2 (IP/11);

11) Progress of the ICAO Bird Strike Information System (IBIS) (IP/12);

12) IBIS Focal Points (IP/13);

13) Sharing State's/Aerodrome Operator's Experience in Managing Wildlife Hazard Management Issues (IP/14);

14) Hazards, Threats, Risks and Controls – a different perspective for the future (PPT/01);

15) Introduction to ICAO TRAINAIR Plus Airport Wildlife Hazards Courses (PPT/02);

16) Wildlife Hazard Management at Suvarnabhumi Airport (PPT/03);

17) Innovative Tool for Airside Safety (PPT/05); and

18) Pakistan's Progress on Action Plan for Establishment and Implementation of the WHMP (PPT/06).

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

a) review the Summary Report on the Sixth Meeting of AP-WHM/WG (**Attachment A**);

b) review the **Draft Conclusion** as presented in paragraph 2.6 for endorsement by AOP/SG/8 and consideration by APANPIRG/35;

c) review and endorse the **Draft Decision** as presented in paragraph 2.13 for consideration by AOP/SG/8;

d) discuss any relevant matters as appropriate.

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1.   Introduction

1.1   The Sixth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP–WHM WG/6) was held in Bangkok, Thailand from 14 to 17 May 2024.

2.   Attendance

2.1   The Meeting was attended by 61 participants from 12 Member States, Association of Asia Pacific Airlines (AAPA), The International Federation of Airline Pilot's Associations (IFALPA), World Birdstrike Association (WBA) Mastermark Pte. Ltd and ICAO. AVEM Insight and Scarecrow Group Ltd. participated as observers.

3.   Working Arrangements, Language and Documentation

3.1   The working language of the meeting was English inclusive of all documentation and this report. There were 10 Working Papers, 14 Information Papers and 6 Presentations considered by the Meeting.

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Agenda Item 1:   Adoption of Provisional Agenda (WP/01)

1.1   The Provisional Agenda presented in WP/01 was adopted as Agenda for the Meeting.

Agenda Item 1:   Adoption of agenda

Agenda Item 2:   Review outcomes of related Meetings/Seminars

Agenda Item 3:   Global, Regional and National Guidance/Best Practices
                            on Wildlife Hazard Management

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

Agenda Item 5:   State's Action Plan for Establishment and
                            Implementation of Wildlife Hazard Management
                            Programme – State's Update

Agenda Item 6:   Any Other Business

Agenda Item 7:   AP-WHM/WG ToR and Task List

Agenda Item 8:   Date and Venue of Next Meeting

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Agenda Item 2:   Review Outcomes of related Meetings/Seminars

<u>Action Items of 58th Conference of Directors General of Civil Aviation (WP/02)</u>

2.1   AP-WHM/WG/6 meeting reviewed the action items of 58th Conference of Directors General of Civil Aviation (DGCA/58, Dhaka, Bangladesh, 15 to 19 October 2023) relevant to AP-WHM/WG.

Discussion Paper	Action Item	Description
Agenda Item 3: Aviation Safety	
DP/3/03	58/4	To ensure efficient and safe ground operations and prevent incidents and accidents, the Conference: a. Encouraged States/Administrations, International Organizations, Industries and Safety Partners to share their best practices, technologies, and procedures related to aircraft handling, apron management and ground support equipment for enhancing safety Standards; and b. Requested ICAO to continue assistance to the States/Administrations through Guidance Material, seminars, workshops, and training on Runway safety and Wildlife Hazard Management.

2.2   AP-WHM/WG/6 Meeting reminded States/Administrations to take necessary actions in accordance with 58th DGCA Conference Action Items.

2.3   AP-WHM/WG/6 Meeting invited States and International Organizations to submit Working Paper for the forthcoming APAC DGCA Conference in Cebu, Philippines in October 2024 emphasizing the need to incorporate a National Wildlife Hazard Management Programme into the State Safety Programme or WHM related SEIs in National Aviation Safety Plan, as appropriate, and allocate appropriate resources at national and airport level to manage wildlife hazard at or in the vicinity of the airport.

<u>Outcomes of APANPIRG/34 and AOP/SG/7 Meetings (WP/03)</u>

2.4   The Secretariat provided outcomes of AOP/SG/7 (3 to 6 July 2023) and APANPIRG/34 (11 to 13 December 2023) Meetings related to the Asia Pacific Wildlife Hazard Management Working Group (AP-WHM/WG). The Report of AOP/SG/7 and APANPIRG/34 Meetings could be accessed at: https://www.icao.int/APAC/Meetings/Lists/Meeting%20List%202023/AllItems.aspx.

2.5   AP-WHM/WG/6 noted that AOP/SG/7 had adopted the following Decision formulated by AP-WHM/WG/5:

Decision AOP/SG/7-9 (AP-WHM/WG/5 - 1): Proposal for Amendment to AP-WHM/WG's TOR
What: That, the Terms of Reference of the Asia/Pacific Wildlife Hazard Management Working Group (AP-WHM/WG) be amended as provided in **Appendix I** to the Report of AOP/SG/7.	Expected impact: ☐ Political / Global ☐ Inter-regional ☐ Economic ☐ Environmental ☒ Ops/Technical

Why: To allow additional three years of time for Working Group to focus on the onsite technical assistance to States for establishment of the National Wildlife Hazard Management Committee, Wildlife Hazard Management Programme, conduct new tasks of the TOR, and to provide some flexibility in the mode of meetings amid the aftermath of COVID-19 pandemic.	Follow-up: ☒Required from States
When: 6-Jul-23	Status: Adopted by Subgroup
Who: ☒Sub groups ☒APAC States ☒ICAO APAC RO ☐ICAO HQ ☒Other: AP-WHM/WG	

2.6   AP-WHM/WG/6 noted that APANPIRG/34 had adopted the following Conclusion formulated by AP-WHM/WG/5 and endorsed by AOP/SG/7:

Conclusion APANPIRG/34/5: ICAO Asia/Pacific WHM Go-Team Methodology	
What: That, • The needs for technical assistance in the area of WHM for ICAO APAC States be periodically reviewed; • States with such needs be encouraged and invited to host WHM mission; and • The methodology for running such Go-Team missions provided in **Appendix C** to the Report of AOP/SG/7 be adopted by APANPIRG/34.	Expected impact: ☒ Political / Global ☐ Inter-regional ☒ Economic ☐ Environmental ☒ Ops/Technical
Why: To assist States in WHM	Follow-up: ☒Required from States
When: 13-Dec-23	Status: Adopted by PIRG
Who: ☒Sub groups ☒APAC States ☒ICAO APAC RO ☐ICAO HQ ☐Other: AP-WHM/WG	

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Agenda Item 3:   **Global, Regional and National Guidance/Best Practices on Wildlife Hazard Management**

Innovative Techniques for Mitigating Wildlife Hazards at Airports (WP/04)

3.1   Presented by WBA, the WP/04 emphasised the adoption of innovative meaningful techniques to mitigate wildlife hazards at airports, particularly bird/wildlife strikes. Factors contributing to these risks include attractive habitats like grassy areas and water bodies, nearby landfills, migratory patterns, coastal locations, improper grass management, and construction activities. Airports need a comprehensive, meaningful data-driven approach to assess and rank risks and patterns from different species, utilising appropriate and suitable technologies for monitoring wildlife, analysing historical incident data, and understanding seasonal and behavioral patterns. Even though there is no silver bullet, by implementing innovative deterrents, habitat management, and improved communication, airports can significantly reduce wildlife hazards and enhance aviation safety. Airports were encouraged to integrate these technologies/techniques into their programmes to maximise the effectiveness of monitoring and reporting systems. The paper also called for airports to submit case histories of successful initiatives, which would be compiled and shared to promote knowledge exchange and innovation in airport management.

3.2   AP-WHM/WG/6 acknowledged that a wildlife hazard study should be conducted at the planning stage of any new airport and emphasized the requirement of continuous monitoring of wildlife data and continuous update of an airport WHM Plan due to the changes of the birds.

Update from Australian Aviation Wildlife Hazard Group (AAWHG) 2023/24 and International Forum – 13-15 August 2024, Melbourne, Australia (IP/03)

3.3   Presented by Australia, the IP/03 provided a brief 12-month activity summary of the Australian Wildlife strike committee and noted the risks posed to aviation through realization of wildlife hazards is one that reaches all aspects and domains of the aviation system. The hazard is not uniquely an aerodrome problem but is a system-wide problem and through the understanding of this and the integration of the management of this hazard and the associated risk truly effective outcomes could be realised in even the most challenging of environments and across all aviation domains.

3.4   During a very successful AAWHG hosted workshop in October 2023, guidance materials known as Recommended Practices were developed; specifically: 'Wildlife strike reporting and record keeping', 'Wildlife Strike Minimisation (aircraft-based mitigation)' and 'Training and competency for ATC'. Additionally, the AAWHG advised that in 2024 an AAWHG International Forum would be held on 13-15 August in Melbourne, Australia at the Melbourne Zoo (AAWHG 2024 Forum). The theme for this event would be 'Sharing the Responsibility' and would feature presentations and speakers from all facets of the aviation industry as well as experts from around the world. It was expected AAWHG would host speakers from North America, Asia and Pacific, Africa and Europe. In addition, international attendees and presenters were also invited to an extra international day on the 12th August 2024.

Hazards, Threats, Risks and Controls – a different perspective for the future (PPT/01)

3.5   A presentation was provided by Australia/the Chair of Australian Aviation Wildlife Hazard Group (AAWHG) covering the latest work of the International Wildlife Hazard Management (WHM) Subject Matter Expert (SME) Group. The Group is a collective of SMEs from around the globe made up of established aviation spheres as well as biology/science who are interested in improving wildlife strike mitigation across all spheres of influence through the re-balancing of the risk equation. This approach stems from an observation that aerodromes are often disproportionately burdened with risk 'assessment' rather than concentrating on hazard management and communication when the risk assessment should be considered and calculated by the users of the airspace and/or aerodrome as occurs for weather events or phenomenon like volcanic ash. Ultimately, the outcome the Group would be to

see a rebalance of the risk equation where all stakeholders share in the responsibilities and the safe and efficient outcomes possible in such a system.

3.6   It was hoped that a key item on this pathway into the future would be the production of a Manual, like ICAO Flight Safety and Volcanic Ash (Doc 9974) but instead being Flight Safety and Wildlife Hazard Management. Wildlife Hazard Management is a shared responsibility with each stakeholder owning its risk. WHM is a system-wide problem concerning all aviation stakeholders. Through the understanding of this and the integration of the management of this hazard and the associated risk the aviation system can realise a shared responsibility and therefore a shared safety outcome. This presentation formed the basis for IP/04 detailed below and seeking support to submit a WP to AN-CONF/14.

Proposal to Submit Working Paper on Wildlife Hazard Management to Fourteenth Air Navigation Conference (AN-CONF/14) (IP/04)

3.7   The IP/04 sought support and/or co-sponsorship by likeminded APAC States, and proposed submission of a Working Paper to the AN-CONF/14 on Wildlife Hazard Management with ultimate aim to establish a multi-disciplinary/multi-panel working group to develop best practice guidance on a systemic approach to this hazard. Significant materials exist across ICAO through the various Annexes, PANS and other materials, but the lack of a cross-disciplinary guide, such as Doc 9974 Flight Safety and Volcanic Ash, has resulted in a system that is not as efficient or effective as it could be. Significant support for the proposal appears imminent from other regions and the paper called for support from across the APAC region as well.

Nocturnal Bird/Wildlife Hazard – an Emerging Problem for Airports Operations (IP/05)

3.8   Presented by India, the IP/05 emphasized that aerodrome wildlife hazard could be effectively managed by engaging active control measures during day. However, there is high risk of hazardous situation existing around the aerodrome by the nocturnal birds mainly by fruit bats which is the potential species impacting to aircraft operations. Since these species occupy the dark patches as their movement corridors that often meets on the approach and landing path of the aircrafts, hence making impossible to get any evidence for further investigating the incident. Since there movement is outside of the airport hence the WHM team wouldn't have any clue about the details of the incidents.

3.9   Due to urbanisation around the airport these species are disturbed vastly across, and they are occupying alternative roosting sites, hence they are moving over the airspace often conflicts with aircrafts. This being an emerging and invincible risk which often unattended due to lack of evidence. Hence all the aerodrome operators are to engage adequate monitoring mechanism to assess the inventory of hazardous existing around the aerodrome to engage appropriate mitigation measures to prevent such threats moving on to aircraft movement path.

Best Practices on Wildlife Hazard Management (IP/06)

3.10   India shared best practices adopted by Delhi International Airport Ltd. (DIAL) for wildlife hazard management at Delhi International Airport, which is one of the largest and most complex airports located at New Delhi, India having four active runways (two pairs of parallel dependent runways).

3.11   The airport spreads over an area of 5,500 acres of land and accounts for approx. 1,400 ATMs per day. Despite being located in an urban and second most populated city in the world, the airport is also surrounded by many natural and restored green areas accounting for 22% green cover area. Further, the climate of Delhi is semi-arid, and there is a vast difference between summer and winter temperatures. The green areas and temperature variations ultimately lead to wildlife attractions which is a matter of concern to DIAL as wildlife may enter the airport especially the birds and probabilities are there the birds may get habitual to airport environment.

3.12   Behavioral and food preference study (species wise) was considered to develop mitigation measures. This study resulted into drastic reduction in the bird strike rate of two bird species namely, Red-wattled Lapwing and Indian Rock Pigeon. At DIAL, continuous exchange of knowledge regarding identification of best wildlife mitigation measures at national and international level are also being regularly done to keep everyone ready to avoid bird strikes by placing the best mitigation measures in advance.

Measures undertaken to minimize Jackal Menace at NSCBI Airport, Kolkata (IP/07)

3.13   Presented by India, the IP/07 shared the mitigation measures taken to reduce the jackal menace inside the operational area at one of the oldest civil airports in India, Netaji Subhash Chandra Bose International (NSCBI) Airport Kolkata.

Progress of the ICAO Bird Strike Information System (IBIS) (IP/12)

3.14   Presented by the Secretariat, the IP/12 provided an overview on progress of the ICAO Bird Strike Information System (IBIS).

3.15   AP-WHM/WG/6 noted that the new IBIS Manual (Doc 9332) would be published on Q4 of 2024.

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

ICAO Asia-Pacific Wildlife Hazard Management Go-Team Methodology – Update (WP/05)

4.1   On behalf of the Small Task Force composed of Australia, India, Thailand, ACI & WBA, WP/05 presented by Australia detailed the Wildlife Hazard Management (WHM) Go-Team Mission Programme Document that is required to be attached to the Asia/Pacific WHM Go-Team Methodology which was initially proposed by ACI at AP-WHM/WG/5 via WP/05 in May 2023 and approved by APANPIRG/34 in December 2023 as per recommendation of AOP/SG/7 in July 2023.

4.2   At AP-WHM/WG/5, the Working Group agreed to develop a WHM Go-Team Assistance Mission Programme (Task 5/5) via the AP-WHM/WG Terms of Reference (Second Amendment to AP/WHM-WG ToR) approved by AOP/SG/7. The Assistance Mission Programme/Template for States, known as the 'Wildlife Hazard Management Go-Team' approach, is designed for adoption and use by States within the ICAO Asia-Pacific Region. It specifically provides a templated timeline for a 1-week Go-Team mission, supplemented by pre-and post-mission activities and elements. The WHM Go-Team approach focusses particularly on the establishment of national WHM committees and a national WHM programme.

4.3   AP-WHM/WG/6 formulated the following Draft Conclusion for endorsement by AOP/SG/8 and for consideration by APANPIRG/35:

Draft Conclusion AP–WHM/WG/6–1: ICAO Asia-Pacific WHM Go-Team Assistance Mission Programme Document	
What: That • States with needs to enhance WHM be encouraged and invited to host WHM Go-Team Assistance Mission; and • The ICAO Asia/Pacific WHM Go Team Assistance Mission Programme Document presented in **Appendix A** to the Report of AP-WHM/WG/6 be endorsed by AOP/SG/8 for consideration by APANPIRG/35. • After approval by APANPIRG/35 the ICAO Asia/Pacific WHM Go Team Assistance Mission Programme Document be included as an Appendix to the ICAO Asia/Pacific WHM Go-Team Methodology and published on ICAO APAC Website.	Expected impact: ☒ Political / Global ☐ Inter-regional ☒ Economic ☐ Environmental ☒ Ops/Technical

Why:	To assist States in WHM	Follow-up:	☒Required from States
When:	27-Nov-24	Status:	Draft to be adopted by PIRG
Who:	☒Sub groups ☒APAC States ☐ICAO APAC RO ☐ICAO HQ ☐Other: XXXX		

An Overview of Wildlife Hazard Management Programme Implemented at Greenfield Manohar International Airport, Goa, India (IP/08)

4.4   India shared the aerodrome operator's experience in establishment and commencement of the Wildlife Hazard Management Programme at the new greenfield airport – Manohar International Airport (MIA), Goa, India. The paper elaborated step by step activities conducted by MIA at Project Planning Phase (Pre-operations Phase), Pre-Licensing Phase and Operations Phase in a way that was easy to understand and follow for the establishment and commencement of the Wildlife Hazard Management Programme at the airport level.

<u>Sharing State's/Aerodrome Operator's Experience in Managing Wildlife Hazard Management
Issues (IP/14)</u>

4.5   Presented by Thailand, IP/14 provided a comprehensive overview of Wildlife Hazard
Management (WHM) strategies of Thailand. The paper highlighted the Civil Aviation Authority of
Thailand's (CAAT) national aviation safety strategy, as outlined in the Thailand Aviation Safety Action
Plan (TASAP) under Thailand's State Safety Programme (SSP). This strategy includes the establishment
of a dedicated Wildlife Hazard Management Taskforce that emphasizes proactive wildlife risk reduction
in collaboration with aviation industry stakeholders.

4.6   The IP/14 (Presentation) detailed how each of Thailand's four aerodrome operators
(Department of Airports, Airports of Thailand, Bangkok Airways, and Royal Thai Navy) implements a
tailored Airport Wildlife Hazard Management Programme (WHMP). These WHMPs address specific
challenges faced by each airport, encompassing aspects like data collection methods, on- and off-
aerodrome wildlife hazard management strategies, and even challenges beyond the airport perimeter.

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**Agenda Item 5:   State's Action Plan for Establishment and Implementation of
                     Wildlife Hazard Management Programme – State's Update**

State Action Plan for Establishment and Implementation of Wildlife Hazard Management
Programme - Update (IP/09)

5.1   The IP/09 presented an update on *India's action plan for establishment and
implementation of Wildlife Hazard Management Programme (WHMP)*. The plan focused particularly
on the steps taken or being proposed to implement the 16 action items for establishment and
implementation of Wildlife Hazard Management Programme in India.

Pakistan's Progress on Action Plan for Establishment and Implementation of the WHMP
(PPT/06)

5.2   Pakistan presented its progress report on Development and Implementation of WHMP.
Whilst Pakistan successfully implemented elements of action plan, WHM Training remained a concern.
For the purpose of capacity building and WHM training, Pakistan indicated its intention to approach
International / Regional Organizations. It was also agreed that Pakistan would share further update on
the issue in the next meeting of AP-WHM WG.

Monitoring and Reporting of Wildlife Strike using the CAAM Aviation Reporting System
(CAReS) (IP/10)

5.3   Presented by Malaysia, the IP/10 focused on monitoring and reporting system for
wildlife strikes that Malaysia had developed, detailing the challenges faced during its implementation.
It also aimed to explore best practices adopted by other States in the Asia-Pacific Region on this matter.

5.4   CAReS were designed to handle various types of safety occurrence reports serving as
a comprehensive platform for collecting and processing different kinds of reports, including wildlife
strike reporting. By centralizing the reporting process, CAReS aims to streamline the collection,
analysis, and dissemination of safety data.

5.5   The paper also outlined several challenges encountered during the implementation
CAReS. Significant challenges highlighted were user training and adoption, awareness of the CAReS
and data migration and integration.

Threats Posed by Insects (BEES) at Kuala Lumpur International Airport (KLIA) Terminal 1 & 2
(IP/11)

5.6   Presented by Malaysia, the IP/11 focused on the hazards posed by insects, particularly
bees, at Kuala Lumpur International Airport's (KLIA) Terminals 1 and 2. It shed light on the potential
risks these insects pose to airport operations, passenger safety, and overall airport infrastructure.
Moreover, it discussed the proactive measures undertaken to mitigate these risks.

5.7   The paper also outlined the mitigation plans for wildlife handling and hazard control at
KLIA encompassing various strategies aimed at minimizing disruptions and ensuring safety,
particularly in incidents involving bees.

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Agenda Item 6: **Any other Business**

<u>ICAO USOAP CMA and AGA Findings in WHM (WP/06)</u>

6.1 AP-WHM/WG/6 noted ICAO USOAP CMA activities conducted in APAC States in 2023 and those planned for 2024.

6.2 The Meeting also noted the USOAP Effective Implementation (EI) scores of the individual APAC States for WHM related PQs derived from iSTARS 4.0, PQ Tester and provided in **Appendix B**. APAC average WHM EI in AGA area was 50.26 % as compared to the global average of 61.83% as of April 2024.

6.3 Table 6.1 below illustrates the APAC Average WHM EI scores for June 2018 and April 2024:

Table 6.1: APAC Average EI Scores for WHM PQs
[Source: USOAP CMA OLF/ iSTARS 4.0 - PQ Tester]

S. No	Year	<u>APAC</u> Av. EI in WHM	<u>Global</u> 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)

6.4 The meeting encouraged APAC States/Administrations with EI less than 80% in WHM related PQs to put more resources and efforts to improve EI to meet the 75% of GASP target by 2024; and to approach respective COSCAPs or ICAO APAC Office, if State(s) require assistance in WHM.

<u>Asia Pacific Guidance Materials and Custodian (WP/07)</u>

6.5 Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials approved by the AOP/SG/7 and published on ICAO APAC Website at eDocuments under AGA heading could be accessed using URL: https://www.icao.int/APAC/Pages/eDocs.aspx. The list of the GGMs developed by the AP-WHM/WG was provided as **Attachment B** to the above procedural document.

6.6 As the Expert Group (Australia, India, Thailand, ACI and WBA) developed the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme (**Appendix A** to the AP-WHM/WG/6 Report), and if endorsed by AOP/SG/8 and APANPIRG/35 it would be required to include in the List of the GGMs as **Attachment B** of the **Appendix C** (Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials) to the AP-WHM/WG/6 Report.

6.7 AP-WHM/WG/6 Meeting unanimously agreed that Australia would be the custodian of the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document.

6.8   AP-WHM/WG/6 formulated the following Draft Decision:

Draft Decision AP-WHM/WG/6 - 2: Updated List of Asia/Pacific Generic Guidance Materials Developed by the AP-WHM/WG with Details of the Custodians	
What: That, the *Attachment B* to the *Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials* (**Appendix C** to the Report of the AP-WHM/WG/6) be published on the ICAO APAC Website at eDocuments Webpage under the AGA heading after endorsement of the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document by AOP/SG/8 and adoption by APANPIRG/34.	Expected impact: ☐ Political / Global ☐ Inter-regional ☐ Economic ☐ Environmental ☒ Ops/Technical
Why: To incorporate in the list the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document with updated details of the custodian of the GGMs.	Follow-up: ☐Required from States
When: 19-Jul-24	Status: To be adopted by Subgroup
Who: ☒Sub groups ☐APAC States ☒ICAO APAC RO ☐ICAO HQ ☐Other: AP-AA/WG	

<u>Enhancing Aviation Safety and Efficiency: Recommendations for a more Risk Based Approach with Bird Strikes and Runway Closures (WP/10)</u>

6.9   Presented by Association of Asia Pacific Airlines (AAPA), the WP/17 addressed an avenue to enhance aviation safety and efficiency concerns, emphasizing the benefits of an enhanced use of a risk-based approach in determining runway closures arising from reported bird strikes. These measures are essential for minimizing disruptions, ensuring passenger safety, and enhancing overall airport operations. This enhanced aviation safety and efficiency emphasizes the benefits of a risk-based approach to determine runway closures after bird strikes. This is essential for minimal disruptions, passenger safety, and improved airport operations.

<u>List of Experts of Asia/Pacific Wildlife Hazard Management Working Group (IP/02)</u>

6.10   AP-WHM/WG/6 noted the updated list of experts of AP-WHM/WG provided in **Appendix D**.

6.11   The Meeting urged Members of the Working Group to review the list, update the information of the listed experts and provide names and contact details of new WHM Experts nominated by the respective CAA of the State to ICAO APAC Office.

<u>IBIS Focal Points for Asia and Pacific States (IP/13)</u>

6.12   The Secretariat presented the list of ICAO Bird Strike Information System (IBIS) Focal Points of Asia and Pacific States for review and update by the Meeting (**Appendix E**).

6.13   The Meeting urged States to review the list of the IBIS Focal Points of Asia Pacific States and provide additional contact details, if any, for inclusion in the list.

Introduction to ICAO TRAINAIR Plus Airport Wildlife Hazards Courses (PPT/02)

6.14   Mastermark Singapore presented their updated Airport Wildlife Hazard Management and Operations courses to the ICAO AP-WHM WG/6 meeting in Bangkok, Thailand. In collaboration with Embry-Riddle Aeronautical University, these are currently the only ICAO-certified wildlife hazard courses available. Enhanced with two updated modules for local Civil Aviation Authority (CAA) policy makers, they were designed to be practical and relevant for all levels of airport operations, from top management to ground staff. The newly added modules in the management course focused on topics like the international rule-making hierarchy, interpretation of ICAO wildlife hazard documents, development/updating of local guidance material and/or advisory circulars by local CAAs. The streamlined content emphasised fostering cohesion among policy makers, airport operators, and ground operations staff to ensure that policies are realistic and implementable. Their goal is to equip all stakeholders with the necessary knowledge and tools for effective wildlife hazard management, promoting a unified approach to enhance safety and operational efficiency. Both courses are scheduled for November 2024 in Singapore.

6.15   AP-WHM/WG/6 recognized the need for capacity building of States with low USOAP CMA EI in WHM through trainings, seminar or workshops in WHM. It was also discussed to explore the possibility of organising training or workshop in WHM with the support from COSCAPs Programme in the near future.

Wildlife Hazard Management at Suvarnabhumi Airport (PPT/03)

6.16   Wildlife Hazards Control Unit, Suvarnabhumi Airport (BKK) is in Airside Operation Department. BKK has operation staff and outsource staff who operate 24 hours/7 days. BKK has 2 runways and 120 aircraft stands. The responsibilities are to plan and control wildlife hazards environment in the airside or any other wildlife hazards that will endanger the aviation activities, collect data of bird/wildlife strikes report and analyze data and plan to reduce birds and wildlife hazards.

6.17   BKK has established the Bird/Wildlife Strike Control Program and annually reviews to guarantee its continued effectiveness. The program focuses on airside environmental management plan, birds/wildlife control and prevention plan, airside patrolling/repellent plan and bird population survey/relative risk assessment.

6.18   For airside environmental management plan, BKK has focused on the areas that are attractive to birds/wildlife. These include grasslands, waterlogged areas, drainage ditches, ponds, airport buildings, unused structures and waste disposal sites. Additionally, airside personnel are strictly prohibited from feeding birds/wildlife within the airside premises.

6.19   For birds/wildlife control and prevention plan, BKK employs various methods to reduce food sources, breeding site management by preventing birds from nesting and egg removal, using bird repellent gels and installing anti-perching devices to deter birds from perching and roosting on the site, trapping and relocating wildlife, inspecting fences and gates to prevent wildlife from accessing the airside.

6.20   For airside patrolling and repellent plan, BKK conducts regular patrols throughout the day. When birds/wildlife are spotted in the area, the team promptly deploys a range of equipment such as car horns and synthetic sound effects, pyrotechnics and shotguns. BKK also conducts bird population surveys and uses this information for risk assessment.

6.21   For the area outside the airside, BKK surveys the areas cover both within and around the airport perimeter and coordinate with external agencies and local authorities to request land-use data for the purpose of planning prevention measures and reporting to Civil Aviation Authority of Thailand.

<u>Innovative Tool for Airside safety (PPT/05)</u>

6.22   StrykerAV is an airside safety application designed to enhance wildlife hazard management, safety and efficiency in airport operations. It likely includes features such as real-time monitoring of airside activities, runway incursion message alerts, collision avoidance systems, and comprehensive reporting tools for analysing safety incidents. It aims to mitigate risks and improve overall safety standards in airport and airfield environments.

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Agenda Item 7:   **AP-WHM/WG TOR and Task List**

AP-WHM/WG Task List (WP/08)

7.1   The AP-WHM/WG/6 Meeting reviewed the Task List, and the updated Task List provided in **Appendix F**.

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Agenda Item 8:   Date and Venue of Next Meeting

Provisional Agenda, Date and Venue of Next Meeting (WP/09)

3.2   The Meeting reviewed the draft agenda proposed by the Secretariat and agreed on the following Provisional Agenda for the AP-WHM/WG/7:

AP-WHM/WG/7

DRAFT PROVISIONAL AGENDA

Agenda Item 1:   Adoption of agenda

Agenda Item 2:   Review outcomes of related Meetings/Seminars

Agenda Item 3:   Global, Regional and National Guidance/Best Practices on Wildlife Hazard Management

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

Agenda Item 5:   State's Action Plan for Establishment and Implementation of Wildlife Hazard Management Programme – State's Update

Agenda Item 6:   Any Other Business

Agenda Item 7:   AP-WHM/WG ToR and Task List

Agenda Item 8:   Date and Venue of Next Meeting

3.3   The next meeting of AP-WHM/WG would be held in the last week of April/or early May 2025 for three to five days. The venue proposed was ICAO APAC Office, Bangkok; however, State/Administration interested to host the meeting was requested to contact the Secretariat. The venue of the meeting would be communicated to States/Administrations through ICAO APAC Invitation Letter.

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Closing of the Meeting

9.1   Mr. Deo Chandra Lal Karn, Chairperson of the AP-WHM/WG, expressed sincere thanks and appreciation to the participants from States/Administrations, International Organizations (IOs), Speakers, Sponsor and Exhibitor for their contribution and support to AP-WHM/WG/6 Meeting. He also expressed sincere thanks to CAA Thailand and Airports of Thailand for an excellent arrangement for site visit to Suvarnabhumi International Airport and its surroundings for AP-WHM/6 delegates. Mr. Karn thanked the ICAO Secretariat for the excellent preparation of the Meeting.

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ICAO APAC WHM Go Team Assistance Mission Programme Document

1. <u>**Purpose**</u>

This document offers a structured program for a five-day mission of an ICAO Wildlife Hazard Management (WHM) Go Team. The program content may be customised to align with the specific needs and environment of the Host State.

2. <u>**Preparations Before the Mission**</u>

The leader of the Go Team mission should send an ICAO APAC questionnaire on WHM to the Host State at least 6 weeks before the mission. The Host State is expected to complete the questionnaire at least two weeks before the mission, enabling a better understanding of their WHM requirements and challenges. The Host State is also expected to identify and invite well in advance relevant stakeholders in their State to participate in the Go Team activities.

Members of the Go Team mission should send necessary documents to the Host State for security clearance and preparation of airside permits. The onus of obtaining the necessary permits and clearances for airside access shall be the sole responsibility of the State in coordination with the airport well in advance taking into consideration the duration of the Go Team program, as the State specific security regulations may vary and the application process take time.

3. <u>**Mission Program**</u>

The Go Team may follow or adapt the mission program detailed below to suit the needs of the Host State. The program should be communicated at least two weeks in advance to the Host State for effective coordination and planning with relevant stakeholders.

Day	Activities	Action By or Participants
Day 1	Initial meeting and introductions	Host State and Go team
	Explain mission by Go Team, including objective of mission, ICAO requirements and guidance on WHM e.g. Annex 14, doc 9137 Part 3, and industry guidance (WBA, ACI guidance)	Go Team
	Explain the framework of State Safety Programme (SSP) to establish a national plan and procedures related to wildlife hazard management, not only at the aerodrome but also in its vicinity.	Host State
	Present an overview of WHM in State, including regulations, SSP, national plan, procedures, established committees, and wildlife strikes data.	Host State
	Identify and review key WHM concerns and adjust mission program as needed based on the questionnaire completed by Host State before the mission and the discussions in the morning of Day 1.	Host State and Go Team

Day	Activities	Action By or Participants
Day 2	Morning session - discussion on key concerns and actions taken so far. Considering location, resourcing, and any environmental factors, discuss potential practical mitigation options available. Afternoon session - Fieldwork to assess current WHM practices such as: • Habitat management; • Risk assessment and mitigation; • Identification of species, wildlife survey and monitoring, and strike data; and • Wildlife hazard control measures.	Host State and Go Team
Day 3	Based on discussions and evidence gathered on previous days and in consultation with the Go Team, Host State to propose an outline action plan and to prepare roadmap to progress and complete action plan. Reference documents for preparation of action plan and roadmap: • State WHM Program and documents, e.g. audit procedure • Airport WHM Plan (agree on an alternative if Airports do not have a WHMP, e.g. any relevant documents available providing essential elements of a WHM Plan) • State regulations and procedures related to WHM	Go Team accompanied by the relevant stakeholders of the Host State

Day 4	In the morning, continuation of discussion on recommendations and action plan.
	
	In the afternoon draft initial report consisting of:
	
	• _Key observations_:
	  • Summary of Key WHM Concerns: Go-Team members should compile a concise summary of the most critical WHM concerns identified during the mission (Day 1-4). These should be the issues that have the highest potential impact on aviation safety.
	
	• _Observations_:
	  • Achievements and opportunities for improvements in the Host State's existing
		Host State and Go Team
		
		Go Team

Day	Activities	Action By or Participants

	WHM program covering aspects such as documentation, training, monitoring, reporting, and coordination.
	• Detailed WHM Findings: Provide details of the WHM situation in the host state based on the mission's observations.
	• Implementation of ICAO SARPs recommended practices of international associations guidance related to WHM. Identify and document any areas where there may be deviations or room for improvement.
	• _Recommendations_:
	  • Mitigation Measures and enhancements to existing practices: Offer specific recommendations for addressing the identified and emerging WHM concerns. These recommendations should be actionable and tailored to the context of the Host State. These may include suggestions to improve existing regulatory framework, protocols, equipment, or training programs.
	  • Discussions of potential improvements in implementation of ICAO SARPs.
	• _Roadmap_
	  • Timelines: Develop a timeline for implementing the recommended actions. Specify short-term and long-term goals, indicating when each action should be completed.
	  • Action Items: List the specific tasks or actions required to achieve each recommendation. These action items should be detailed, outlining the steps needed to carry out the recommendations effectively.	

Day 5	Presentation of initial report with preliminary observations and recommendations, recommended action plan and roadmap to undertake and complete agreed actions. Discussions and comments on initial report	Go Team and Relevant Stakeholders Host State and relevant Stakeholders

4. Follow Up After the Mission

The Go Team should submit a final report on the mission based on the agreed initial report to the Host State with a copy to the Regional Office of ICAO APAC within 6 weeks after the mission.

The Host State should review and provide any comment on the report back to the Go Team via the Regional Office of ICAO APAC within 3 months after receiving the report.

References

- Annex 14 Aerodromes
- Annex 19 Safety Management
- Doc 9981 PANS Aerodrome
- Doc 9137 Part 3 on Wildlife Hazard Management of the Airport Services Manual
- Doc 9332 Manual on the ICAO Bird Strike Information System (IBIS) (new 2024 edition expected)
- WHM Go Team Methodology (Appendix D to WHM-WG/5 Report)
- ACI Wildlife Hazard Management Handbook
- ICAO APAC Regional WHM documents (under the AGA tab)
- Survey Questionnaire - State's problems /issues /deficiencies on Wildlife Hazard Management (Attachment to State Letter T 11/5.9 — AP069/19 (AGA))
- WBA guidance documents

Additional References

- Australian Airport Association (AAA) Airport Practice Note 9 - Wildlife Hazard Management at Airports
- Australian Airport Association (AAA) Airport Practice Note 6 - Managing Bird Strike Risk-Species Information
- Australian Aviation Wildlife Hazard Group (AAWHG) Recommended Practice 1.3 Wildlife Risk Assessment and Analysis

- 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
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			

State's USOAP EI in WHM AGA Area
(Date: 19 April 2024)
Source: iSTARS 4.0, PQ Tester

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

ASIA PACIFIC GENERIC GUIDANCE MATERIALS AND CUSTODIANS

Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials
in the area of Aerodromes and Ground Aids

1.   INTRODUCTION

1.1   In accordance with the TORs and task lists of the various Working Groups and Task Forces of AOP/SG, a number of Generic Guidance Materials (GGMs) were developed by these Working Groups/Task Forces and approved by AOP/SG and APANPIRG. All Generic Guidance Materials are published on ICAO APAC Website at eDocuments Webpage under AGA heading for use/reference by States/Administrations and can be accessed using URL: https://www.icao.int/APAC/Pages/eDocs.aspx.

1.2   The list of Asia/Pacific GGMs developed by various Working Groups and Task Forces and approved by AOP/SG and APANPIRG including the details of the Custodians is provided in **Attachments A to D**.

2.   PROCEDURE

2.1   The Working Groups/Task Forces identify a custodian of the individual Asia/Pacific GGM from State(s)/ International Organization(s)/Industries with the responsibility to review and update the respective Asia/Pacific GGM(s) in coordination with ICAO APAC Office whenever it becomes necessary.

2.2   For periodic review and update of the Asia/Pacific GGMs in the area of AGA in future, the following process should be followed by the Custodians and the Secretariat:

a)   The Secretariat would inform to the respective custodian(s) of the Asia/Pacific GGM(s) once ICAO approved amendments to ICAO SARPs and PANS-Aerodromes (Doc 9981), revisions to Airport Services Manuals and other relevant ICAO documents that may necessitate the review and update of the GGM(s);

b)   The Secretariat/Custodian(s) exchange information about newly developed States/Industries good practices relevant to Asia/Pacific GGM(s) as soon as they become aware of their availability;

c)   The custodian of the respective GGM coordinates with the relevant subject matter experts of the respective Working Group/Task Force and the Secretariat to initiate the review of the GGM;

d)   Once the review and revision of the GGM is completed the custodian would present the revised GGM through the Working Paper at the respective WG/TF meeting for its endorsement with a draft conclusion for adoption by the AOP/SG; and

e)   After the adoption of the draft conclusion by the AOP/SG the revised GGM(s) should be uploaded by the Secretariat on the ICAO APAC Website on eDocuments Webpage under AGA heading.

Attachment A

List of GGMs developed by AP-AA/WG and approved by AOP/SG with details of the custodians

S. No	APAC Generic Guidance Materials	Edition/Version, Date	States involved in the Development of Generic Guidance Materials	Custodian (Responsible party for future review and updates)
1	Asia Pacific Regional Guidance on AIP – AD 1.5 Status of Certification of Aerodromes	Version 1.0, Dec 2020	Secretariat	**Secretariat** apac@icao.int pshakya@icao.int
2	Generic Aerodrome Certification Procedure	Version 1.0, Dec 2020	Thailand (lead) and Philippines	**Thailand** - Mr. Teeravee Yongwattanajiaranon (Ling) teeravee.y@caat.or.th
3	Generic Procedures for Accepting Non-compliance in Aerodromes	Version 1.0, Dec 2020	Nepal (lead) and Malaysia	**Nepal** - Mr. Babu Ram Paudel paudelbabu@gmail.com
4	Generic Training Programme and Training Plan for Aerodrome Inspectors	Version 1.0, 2 July 2021	India	**India** - Mr. Amit Srivastava amits.dgca@nic.in
5	Generic Aerodrome Inspector Handbook	Version 2.0, 2023	Thailand (lead) and Bangladesh	**Thailand** - Mr. Teeravee Yongwattanajiaranon (Ling) teeravee.y@caat.or.th
6	Generic Aerodrome Manual	Version 1.0, 2 July 2021	India	**India** - Mr. Sudhir Singh sudhir_singh@hotmail.com and Mr. Amit Srivastava amits.dgca@nic.in
7	Generic Aerodrome Certification Specific Operating Regulations	Version 1.0, 2 July 2021	Malaysia (lead), India and Nepal	**Malaysia** - Mr. Mahyuddin Bin Sajuri mahyuddin@caam.gov.my
8	Generic Organization Structure of the Aerodrome Regulatory Unit	Version 1.0, 2 July 2021	Malaysia (lead), India and Nepal	**Malaysia** - Mr. Mahyuddin Bin Sajuri mahyuddin@caam.gov.my
9	Generic Surveillance Programme by Aerodrome Operators	Version 1.0, 2 July 2021	Malaysia (lead), India and Nepal	**Malaysia** - Mr. Mahyuddin Bin Sajuri mahyuddin@caam.gov.my
10	Generic Surveillance Programme for Certified Aerodromes	Version 1.0, August 2022	Malaysia (lead), India and Nepal	**Malaysia** - Mr. Mahyuddin Bin Sajuri mahyuddin@caam.gov.my

11	ICAO Asia-Pacific Aerodrome Assistance Go-Team Methodology	Draft, March 2023	ACI	**ACI** - Mr. SL Wong sl@aci-asiapac.aero ICAO Secretariat apac@icao.int
12	Asia-Pacific Generic Aerodrome Enforcement Policy and Procedures Manual	Draft, March 2023	Malaysia (Lead) and India	**Malaysia** - Mr. Mahyuddin Bin Sajuri mahyuddin@caam.gov.my
13	Asia-Pacific Generic Aerodrome Exemptions Policy and Procedures Manual	Draft, March 2023	Australia (Lead) and India	**Australia [TBC]**
14	Asia-Pacific Generic Aerodrome SMS Evaluation Tool and Guidance	First Edition, 2024	Thailand (Lead), Australia, and Maldives.	**Thailand -** Angsana Panmongkon angsana.r@caat.or.th

List of GGMs developed by AP-WHM/WG and approved by AOP/SG with details of the custodians

S. No	APAC Generic Guidance Materials	Edition/Version, Date	States involved in the Development of Generic Guidance Materials	Custodian (Responsible party for coordination for future review and updates)
1	Composition of National Wildlife Hazard Management Committee	Sep. 2019	Nepal, Bhutan, Lao PDR	**Nepal** Mr. Deo Chandra Lal Karna, d_karna@hotmail.com
2	Terms of References of National Wildlife Hazard Management Committee	Sep. 2019	Nepal, Bhutan, Lao PDR	**Nepal** Mr. Deo Chandra Lal Karna, d_karna@hotmail.com
3	Asia Pacific Guidance for Evaluation of Aerodrome Wildlife Hazard Management Programme	First Edition, 2 July 2021	WBA, Australia, Bangladesh, India, Thailand and ACI	**WBA** Ms. Lalita Vaswani lalita@worldbirdstrike.com
4	Asia Pacific Guidance for Establishment of National Procedure for Recording and Reporting Wildlife Strikes to Aircraft	First Edition, 2 July 2021	Philippines, Sri Lanka, Nepal, WBA, IFALPA	**WBA** Ms. Lalita Vaswani lalita@worldbirdstrike.com
5	Asia Pacific Guidance on Development and Implementation of Airport Wildlife Hazard Management Programme	First Edition, August 2022	Australia, Fiji, India, WBA, AAPA	**WBA** Ms. Lalita Vaswani lalita@worldbirdstrike.com
6	ICAO Asia Pacific Wildlife Hazard Management Go-Team Assistance Mission Progromme Document	First Edition, .… 2024	Australia, India, Thailand, ACI and WBA	**Australia** Ashley McAlpine Ashley.Mcalpine@casa.gov.au

Attachment C

List of GGMs developed by AOPC/SWG and approved by AOP/SG

S. No	APAC Generic Guidance Materials	Edition/Version, Date	States involved in the Development of Generic Guidance Materials	Custodian (Responsible party for coordination for future review and updates)
1	Asia/Pacific Regional Guidance on Aerodrome Operations Personnel Competency Requirement Framework	Version 1.0 – December 2020	Bangladesh, Cambodia, China, Macao, China (Lead), Maldives, Myanmar Singapore, ACI	Mr. Pedro Cavem (Yangon International Aerodrome, Myanmar) Email: Pedro.Cavem@yangon.aero

Attachment D

List of GGMs developed by WA/SWG and approved by APANPIRG

S. No	APAC Generic Guidance Materials	Edition/Version, Date	States involved in the Development of Generic Guidance Materials	Custodian (Responsible party for coordination for future review and updates)
1	Sample APAC Regulations for Water Aerodromes	First Edition (unedited version) — March 2015	Indonesia, Maldives (Lead), Sri Lanka, New Zealand and USA	CAA Maldives Ms. Fathimath Ramiza Email: ramiza@caa.gov.mv
2	Asia Pacific Regional Guidance on Requirements for the Design and Operations of Water Aerodromes for Seaplane Operations	First Edition — January 2019	Indonesia, Maldives (Lead), Sri Lanka, New Zealand and USA	CAA Maldives Ms. Fathimath Ramiza Email: ramiza@caa.gov.mv

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International Civil Aviation Organization

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

Bangkok, Thailand, 14 to 17 May 2024

List of Experts

Asia/Pacific Wildlife Hazard Management Working Group (AP-WHM WG)

[As of 1 May 2024]

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4.	**Nepal**		
	5. Mr. Deo Chandra Lal Karn	Deputy Director General Civil Aviation Authority of Nepal Head Office, Babar Mahal, Kathmandu, Nepal	dgca@caanepal.org.np;

	State/Administration and Name	Organization/Title	E-mail and Telephone Numbers
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5. Thailand			
7.	Mr. Pongsathorn Chantaragon	Specialist Aerodrome Standardization and Safety Department Airports of Thailand Public Co., Ltd.	pongsathorn.c@airportthai.co.th;
6. World Birdstrike Association (WBA)			
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AP-WHM/WG TASK LIST
[Status Update: – Updated by AP-WHM/WG/6]

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
1/1	Develop a Generic Composition of National Wildlife Hazard Management Committee	AP-WHM/WG/1	AP-WHM/WG/1	Completed	AP-WHM/WG/1-WP/06
1/2	Develop a Generic Terms of Reference of National Wildlife Hazard Management Committee	AP-WHM/WG/1	AP-WHM/WG/1	Completed	AP-WHM/WG/1-WP/06
1/3	Develop survey questionnaire to analyze the State's problem/issues/deficiencies on wildlife hazards management including ICAO USOAP CMA WHM PQs	Sri Lanka, India, WBA	By the end of June 2019	Completed	
1/4	Send survey questionnaire to States/Member Administrations	Secretariat	By the end of July 2019 (giving 4 months of time for the completion of the Survey Questionnaires by States)	Completed	State Letter T 11/5.6 – AP069/19 (AGA) dated 18 July 2019
1/5	Analyze the State's problem/issues on wildlife hazards management based on completed survey questionnaires and present the report to AP-WHM/WG/2	Sri Lanka, India, WBA	AP-WHM/WG/2	Completed	AP-WHM WG/2-WP/11 Continued in Task 2/5
1/6	Present a case study on airport wildlife strike hazard assessment and implementation of mitigation measures	Thailand, India	AP-WHM/WG/2	Completed	AP-WHM WG/2 – WP/05 from Thailand

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
1/7	Request papers from ACI, CANSO, IFALPA, IFATCA and IATA to present their views on wildlife strike hazards at the Second Meeting of AP-WHM/WG	Secretariat	AP-WHM/WG/2	Completed	AP-WHM WG/2 – WP/03 from ACI and WP/04 from IFALPA
1/8	Develop a Generic Composition of Airport Wildlife Hazard Management Committee and its TOR	Nepal, Bhutan, Lao PDR	By the end of July 2019	Completed	Decision AOP/SG/3-6 Posted in ICAO APAC Website under e-Documents
1/9	Develop a Regional Guidance on Development and Implementation of Airport Wildlife Hazard Management Programme	Australia, Fiji, India, WBA, AAPA	December 2020 (Initial Draft) (Final Draft) AP-WHM/WG/4 (Final document)	Completed	AP-WHM WG/2 – WP/07 from Fiji AP-WHM WG/3 – WP/08 (WBA, Australia, Fiji, India and AAPA) AP-WHM WG/4 – WP/04 (Australia, Fiji, India, AAPA, ACI, IFALPA and WBA)
1/10	Encourage States to use IBIS electronic format or ECCAIRS to submit wildlife strike reports to ICAO	Bangladesh, Bhutan, Cambodia, Fiji, India, Lao PDR, Maldives, Nepal, Philippines, Sri Lanka, Thailand Secretariat	From 1st June 2019	Completed	State Letter T 11/5.6 – AP043/20 (AGA) dated 2 March 2020 AP-WHM WG/2-WP/02

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
1/11	Develop guidance for establishment of national procedure for recording and reporting wildlife strikes to aircraft	Philippines, Sri Lanka, Nepal, WBA, IFALPA	Initial Draft by the end of December 2019	Completed	AP-WHM WG/2 – WP/08 from WBA
			Final Draft by AP-WHM/WG/2	Completed	
		USA, Secretariat	Review by December 2020	Completed	AP-WHM WG/3 – WP/05 (WBA, Nepal, Philippines, Sri Lanka and IFALPA)
1/12	Develop procedures for the collection of information from aircraft operators, aerodrome personnel and other sources on the presence of wildlife on or around the aerodrome constituting a potential hazard to aircraft operations	Philippines, Sri Lanka, Nepal, WBA, IFALPA	Initial Draft by the end of December 2019	Completed	AP-WHM WG/2 – WP/10 from WBA
			Final Draft by AP-WHM/WG/2	Completed	Continued in Task 2/6 for remaining work
		Secretariat	Review by December 2020	Completed	AP-WHM WG/3 – WP/05 (WBA, Nepal, Philippines, Sri Lanka and IFALPA)
1/13	Develop performance measurement indicators/metrics to evaluate the effectiveness of the implementation of Airport Wildlife Hazard Management Programme	Bangladesh, India, Thailand, WBA	Initial draft by the end of December 2019 and final draft by AP-WHM/WG/2	Completed	AP-WHM WG/2 – WP/06 from India

Continued in Task 2/7 |

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
2/1	Monitor the establishment of a National Wildlife Hazard Management Committee by the States [Scope of work – 2 as per ToR]	Secretariat – Issue State Letter based on AOP/SG/3 Conclusion.	~~July 2020~~ Continuous	Ongoing	State Letter Ref.: A 3/3 – AP-104/19 (AGA) dated 17 September 2019 Report of the Survey analysis (AP-WHM WG/3 – WP/04 from WBA) 11 among 23 respondent States established NWHMC.

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
2/2	Assist in conducting workshop/seminar on Global and Regional Guidance on WHM [Scope of work – 3 as per ToR]	Australia, ACI

ICAO/ACI Regional Workshop on WHM – ACI to take the lead | | Ongoing | Possible timing: Australian Aviation Wildlife Hazard Group (AAWHG) Forum in September 2021 in Adelaide, Australia |
| | | | AWHMP – 18 May 2021 | Completed | ICAO/AAWHG WHM Webinar on 18 May 2021 |
| | | | Reporting and recording data on wildlife strikes and observed wildlife – July 2021 | Completed | Conducted: Reporting and Recording Data on Wildlife Strikes on 20 July 2021 |
| | | | Wildlife safety risk assessment – 14 Sep. 2021 | Completed | Wildlife Safety Risk Assessment on 14 September 2021 (WHMP)

Workshop on National Wildlife Hazard Management Programme conducted on 2 May 2023 |

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
2/3	Share the best practices on the measures adopted by member States/Administrations to prevent wildlife strike hazards at or in the vicinity of aerodromes a) Submission of best practices to Secretariat/ICAO APAC Office b) Review and select/consolidate the best practices for posting in ICAO APAC Website c) Publish the best practices in ICAO APAC Website	All States/Administrations Expert Group composed of the Chairman, Australia, Fiji, New Zealand, USA and WBA Secretariat	Continuous	Ongoing	Upload on ICAO APAC eDocuments: 1) Australian Airports Association, **Practice Note 6** – Managing Bird Strike Risk – Species Information and **Practice Note 9** – Wildlife Hazard Management at Airports.
2/4	Re-send survey questionnaire to States/Administrations that did not provide responses in Task 1/4	Secretariat COSCAPs and PASO to assist in collection of responses	June 2020 (2 months for States/ Administrations to respond)	Completed	Mark questions for responses by CAA and aerodromes State Letter Ref.: T 11 /5.6 – AP122/20 (AGA) dated 4 June 2020

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
2/5	Based on the survey questionnaire responses:				
	a) Compile the results of the survey questionnaire and the problems / issues faced by States	WBA	October 2020	Completed	Report of the Survey analysis (AP-WHM WG/3 – WP/04 from WBA)
	b) Conduct needs analysis and present the recommendations on the prioritized actions to provide assistance to States as required, including future tasks for the WHM WG	Australia, China, Fiji, Indonesia, Malaysia, Nepal [Lead], New Zealand, Pakistan, Thailand, WBA	AP-WHM/WG/5		AP-WHM/WG/4-Flimsy 1 presented by WBA
2/6	Develop a standardised real-time reporting format for aircrew in flight for transmitting the sighting of wildlife presence.	Australia, Philippines, Sri Lanka, Nepal, WBA, IFALPA [WBA to take the lead]	AP-WHM/WG/3 AP-WHM/WG/4 (Draft format)	Completed	AP-WHM WG/3 – WP/05 (WBA, Nepal, Philippines, Sri Lanka and IFALPA)
2/7	Review performance measurement indicators/metrics presented in WP/06 (AP-WHM/WG/2)	Australia, USA, ACI, WBA	September 2020	Completed	AP-WHM WG/3 – WP/08 (WBA, Australia, Bangladesh, India, Thailand and ACI)
3/1	Draft a template on State's action plan for establishment and implementation of WHMP	WBA, Australia, IFALPA, ACI, Thailand	December 2021	Completed	AP-WHM WG/4 – WP/03

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
3/2	IBIS Webinar/Workshop (Tentative) in conjunction with AP-WHM/WG Meeting (as summary update on IBIS)	ICAO WHM Expert Group Members	In conjunction with AP-WHM/WG/5	Completed	Update on IBIS Manual provided by Mr. John Weller, US FAA at AP-WHM/WG/5 AP-WHM/WG/6 - **IP/12** - Progress of the ICAO Bird Strike Information System (IBIS)
4/1	Presentation/WP by Australia on planning consideration in safeguarding framework in the vicinity of aerodromes	Australia	~~AP-WHM/WG/6~~ AP-WHM/WG/7		
4/2	Summary presentation on assistance provided to States	Secretariat	~~AP-WHM/WG/6~~ Continuous	Ongoing	
AP-WHM/WG/5, 3 - 5 May 2023					
5/1	Response to WHM questionnaire circulated by WBA	Participants of AP-WHM/WG/5 (CAAs and Service Providers) Secretariat – Recirculate WHM questionnaire presented at AP-WHM/5 to participating States/Airport Operators WBA to follow-up for responses from States/Airport Operators	~~By July 2023~~ By June 2024 By September 2024	Ongoing	Responses received from India & Thailand
5/2	Present WP based on analysis of the responses to WBA's WHM questionnaire	WBA	~~AP-WHM/WG/6~~ AP-WHM/WG/7		

	ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
5/3	Sharing State's/aerodrome operator's experience in managing WHM issues (IP)	Thailand (CAAT in coordination with Aerodrome Operators/other stakeholders) India/Goa Airport	AP-WHM/WG/6	Completed	AP-WHM/WG/6-**IP/08** - An Overview of Wildlife Hazard Management Programme Implemented at Greenfield Manohar International Airport, Goa, India AP-WHM/WG/6-**IP/14** - Sharing State's/Aerodrome Operator's Experience in Managing Wildlife Hazard Management Issues [Thailand]
5/4	State's Action Plan for Establishment and Implementation of the WHMP – State's progress update	India – Submitted IP/09 Pakistan – Submitted PPT/06	AP-WHM/WG/6	Ongoing	AP-WHM/WG/6-**IP/09** - State Action Plan for Establishment and Implementation of Wildlife Hazard Management Programme – Update [India] AP-WHM/WG/6-PPT/06 - Pakistan's Progress on Action Plan for Establishment and Implementation of the WHMP

		ACTION ITEM/PLANNED ACTIVITIES	RESPONSIBLE PARTY	TIME FRAME	STATUS	REMARKS
5/5		Develop ICAO APAC WHM Go-Team Mission Programme (Hybrid)	ACI (Lead), Australia/AAWHG, WBA, India, Thailand	Sept./Dec. 2023	Completed	AP-WHM/WG/6-**WP/05** - ICAO Asia-Pacific Wildlife Hazard Management Go-Team Methodology - Update
AP-WHM/WG/6, 14 - 17 May 2024						
6/1		State's Action Plan for Establishment and Implementation of the WHMP – State's progress update	Cambodia, Lao PDR, Nepal, Philippines, Pakistan, Thailand Fiji	AP-WHM/WG/7		
6/2		Sharing State's/aerodrome operator's experience in managing WHM issues (IP)	Australia, Pakistan, India (Navi Mumbai International Airport), Nepal, Indonesia (TBC), Fiji, Maldives (Velana Intl. Airport)	AP-WHM/WG/7		
6/3		Sharing knowledge and experience in using innovative technology and techniques	Pakistan, India (RGIA)	AP-WHM/WG/7		Invited industries to share their experiences jointly with airport operators.
6/4		Workshop on WHM integration to SMS and SSP	Australia (Lead)	In conjunction with AP-WHM/WG/7		Invited other States/IOs and Industries to support the Workshop.