



ICAO

Fourth Meeting of the Asia/Pacific Wildlife Hazard  
Management Working Group (AP-WHM WG/4)

*Video Teleconference, 27 to 29 April 2022*

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

**TEMPLATE OF STATE ACTION PLAN FOR ESTABLISHMENT AND  
IMPLEMENTATION OF WILDLIFE HAZARD MANAGEMENT PROGRAMME**

(Presented by Australia, Thailand, ACI, IFALPA and WBA)

**SUMMARY**

This paper presents for review and approval of a generic template of action plan to guide States in their establishment and implementation of a Wildlife Hazard Management Programme. The paper also proposes a timeline to implement such action plan for the States of Asia-Pacific.

**1. INTRODUCTION**

1.1 AP-WHM/WG/3 held from 19 to 21 May 2021 decided to develop by December 2021 a generic template with successive action items, responsible entities, target and actual implementation dates to assist Asia-Pacific States in establishing and implementing national wildlife hazard management programme (WHMP).

1.2 Australia, Thailand, ACI, IFALPA and WBA voluntarily took up the work, referred to as Task 3/1 by AP-WHM/WG, and formed a small task force, hereinafter referred to as the “Task Force”. A list of the Task Force members is in **Appendix B** to this Working Paper.

**2. DISCUSSION**

Work Method and Template

2.1 From September to December 2021 the members of the Task Force made five video teleconference calls to discuss, draft, and finalize a generic template.

2.2 The Task Force decided at the first call to adapt the format of the existing ICAO template for the implementation of GRF (Global Reporting Format) to develop a new State Action Plan Template for WHMP, i.e. a table consisting of rows of action items and columns with descriptions of the actions, entities responsible for the actions and other details.

2.3 In developing the template, the Task Force made reference to existing ICAO, States and industry guidance materials, and expert views and experience relevant to wildlife hazard management.

## Agenda Item 4

2.4 For a State to establish a WHMP, the template suggests actions and their order in which these are to be taken. Entities responsible to take the successive actions, target and actual implementation dates should be determined by the States themselves and provide explanatory remarks where necessary.

2.5 The template has 16 action items starting from the designation of a national coordinator, to the establishment of national and airport WHM committees, and the reporting of wildlife strikes to ICAO.

2.6 A draft of the generic template is in **Appendix A** to this Working Paper.

2.7 The template allows for some flexibility in the order in which certain actions are to be taken to suit the specific circumstances of the State concerned. For example it suggests that the identification or development of national regulations relevant to WHMP (action item 7) may be done before or after the establishment of airport WHM committee(s) (action item 9) depending on the circumstances of the State.

#### Implementation Timeframe

2.8 The Task Force considers that it is important to propose a timeframe for States that have not yet put a WHMP in place, to help them implement all the suggested actions listed in the generic template by a targeted implementation date (milestone).

2.9 The Task Force proposes that States should start undertaking the actions recommended in the generic template the latest in Q1 2023 so as to complete all actions by 2026 taking into considerations of WHM activities already being undertaken by the State concerned.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) Review, comment on, amend if deemed necessary, and endorse the draft “Generic Template on State Action Plan for Establishment and Implementation of WHMP” in **Appendix A**;
- b) Consider and endorse the implementation timeframe from 2023 to 2026 as proposed in paragraph 2.9 above;
- c) Endorse the Draft Conclusion formulated by the Task Force (see **Attachment**); and
- d) Discuss any other relevant matters as appropriate.

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<b>Draft Conclusion AP-WHM/WG/4-X: State Action Plan for Establishment and Implementation of WHMP - Generic Template</b>	
<p>That, Asia/Pacific States are urged to:</p> <ul style="list-style-type: none"> <li>• Develop “State Action Plan for Establishment and Implementation of WHMP” in accordance with the generic template in <b>Appendix A</b> to this Working Paper assigning State responsible entities and targeted implementation dates (milestones); and</li> <li>• Commence to execute the State Action Plan the latest from Q1 2023 and in accordance with the proposed targeted implementation date (milestone) and complete all actions by 2026.</li> </ul>	<p>Expected impact:</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Political / Global</li> <li><input type="checkbox"/> Inter-regional</li> <li><input checked="" type="checkbox"/> Economic</li> <li><input type="checkbox"/> Environmental</li> <li><input checked="" type="checkbox"/> Ops/Technical</li> </ul>
<p>Why: To reduce wildlife strike hazards on or in the vicinity of aerodromes and enhance safety of aerodrome operations in Asia-Pacific States.</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: 23-Nov-22</p>	<p>Status: Draft to be adopted by PIRG</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX</p>	

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**WILDLIFE HAZARD MANAGEMENT PROGRAMME (WHMP)**
**STATE ACTION PLAN FOR DEVELOPMENT AND IMPLEMENTATION OF WHMP**
**GENERIC TEMPLATE**

\_\_\_\_\_ [Insert name of State]

This generic template provides a recommended action plan for States to implement WHMP. Certain action(s) and/or order of actions recommended here may be not applicable in all States. States may adapt this action plan to suit their national and local conditions as appropriate.

<b>ID</b>	<b>ACTION</b>	<b>ENTITY RESPONSIBLE</b>	<b>TARGETED IMPLEMENTATION DATE</b>	<b>ACTUAL IMPLEMENTATION DATE</b>	<b>REMARKS</b>
WHMP 1	Designate a WHM National Coordinator to coordinate activities for the development and implementation of WHMP at the national level	State Aviation Authority <sup>1</sup> responsible for aviation safety (hereafter referred to as CAA)			
WHMP 2	Identify/designate WHM Focal Points in all stakeholders, e.g. aerodrome operators, ANSPs, aircraft operators, and pilots.  <i>Note.– Stakeholders may be represented by their national, regional or international associations, e.g. ACI, CANSO and IFALPA.</i>	CAA, Aerodrome Operators, ANSPs, Aircraft Operators.			
WHMP 3	Review ICAO provisions and guidance issued by other relevant aviation organisations.	CAA, Aerodrome Operators, ANSPs, Aircraft Operators			

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 4	Establish National WHM Committee (NWHMC) with defined terms of reference.  <i>Note.– See list of publications in suggested references below.</i>	CAA or industry representative appointed by CAA			
WHMP 5	Facilitate WHM initial training in basic WHM concepts for NWHMC members.	CAA			
WHMP 6	Organize initial and recurrent technical WHM training and seminars for Focal Points and relevant staff members of all stakeholders.  <i>Note.– Regular seminars, e.g. annual, are important for maintaining recency and promoting sharing of knowledge and best practices in WHM.</i>	Other stakeholders, e.g. ANSP, aerodrome operators			
WHMP 7	Identify, if non-existing, develop, and if need be, amend regulations, standards and guidance materials, e.g. SSP, reference to WHMP in aerodrome manual and SMS manual.  <i>Note.– States may reverse order of WHMP7 and WHMP9 as they see fit. See Note 2 below the Table.</i>	CAA, National WHM Coordinator and all relevant Focal Points for all stakeholders			

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 8	<p>Establish regulations and/or guidelines that consider WHM aviation safety impacts related to land and infrastructural developments outside the aerodrome boundary.</p> <p><i>Note.– Examples of land and infrastructural developments that may have safety impacts are theme parks, restaurants, solar panel installations.</i></p>	State, e.g. Ministry responsible for Civil Aviation in coordination with other concerned Ministries.			
WHMP 9	<p>Establish airport WHM committees with defined terms of reference and representation from all relevant stakeholders.</p> <p><i>Note.1 – States may reverse order of WHMP7 and WHMP9 as they see fit. See Note 2 below the Table.</i></p> <p><i>Note 2.– Examples of relevant stakeholders to be represented on the WHM committees are airport runway safety team, urban planning and land administration authorities.</i></p>	Aerodrome operators			

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 10	<p>Develop airport WHM Plan covering on and off airport activities, facilities and infrastructure and any changes thereof, contingencies and crises so that any impact of such elements shall be included in the WHM plan. Consistency with other plans shall also be duly considered.</p> <p><i>Note.1 – Refer to Part 3 of Doc 9137 for guidance on the establishment of airport WHM plan.</i></p> <p><i>Note 2.– An example of “other plans” is waste management plan.</i></p> <p><i>Note 3.– WHMP should be drafted with achievable actions, define clear list of roles &amp; responsibilities.</i></p>	Aerodrome operators			
WHMP 11	<p>Include the review of effectiveness of airport-level WHM Plan(s) in State safety oversight program.</p> <p><i>Note. – The review of the effectiveness of airport WHM Plan could be included in the aerodrome SMS.</i></p>	CAA			
WHMP 12	<p>Establish methodology and procedures to review regularly, e.g., annually, the effectiveness of national WHM program.</p> <p><i>Note. – This could be part of SSP.</i></p>	CAA			

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS
WHMP 13	<p>Coordinate airport WHM Plan with air operators and other airport users in the identification of wildlife hazards, e.g. locations and probabilities of wildlife presence, to improve effectiveness of mitigation measures, e.g. by providing a mechanism to share in a timely manner wildlife hazard intelligence with other stakeholders, in particular, pilots, such as alert bulletins, NOTAMs and wildlife detection technologies.</p> <p><i>Note. – “timely manner” in this context means “as close to real time as possible”.</i></p>	CAA and all relevant Focal Points for all stakeholders			
WHMP 14	Identify the necessary means and resources for the implementation of national WHMP (human, financial and material resources)	National Coordinator and NWHMC			
WHMP 15	Promote safety and reporting culture as per safety management principles	CAA and all relevant stakeholders			
WHMP 16	<p>Establish wildlife hazard database as part of SDCPS<sup>3</sup> under SMS and SSP and report electronically wildlife strikes in the standard ICAO format.</p> <p><i>Note. – Information technologies should be adopted to facilitate the recording, sharing and reporting of wildlife activities and strikes.</i></p>	CAA and aerodrome operators			

## Notes:

1. Examples of State Aviation Authority are CAA, DGCA and DCA.
2. State may change order of action items as they see fit.
3. SDCPS stands for Safety Data Collection and Processing Systems

## References

### Publications / Websites

1. PANS Aerodromes (Doc 9981)
2. Airport Services Manual (Doc 9137), Part 3 - Wildlife Hazard Management
3. ICAO [Asia Pacific Guidance for Evaluation of Aerodrome Wildlife Hazard Management Programm](#)
4. ICAO Asia Pacific [Guidance for Establishment of National Procedure for Recording and Reporting Wildlife Strikes to Aircraft](#)
5. ICAO Asia Pacific Guidelines on the drafting of [Terms of References of National Wildlife Hazard Management Committee](#)
6. IBIS Manual (under revision as at 2021). See <https://www.icao.int/safety/Pages/IBIS.aspx>.
7. ACI Wildlife Hazard Management [Handbook](#)

### Training

1. ACI Wildlife Hazard Management Professional Certificate Course ([classroom](#) interactive)
2. ACI Wildlife Hazard Management Training Course ([online](#) self-learning)

### Activities

1. ICAO AP-WHM/WG

**Appendix B: Members of the Task Force to Develop a Generic Template of State Action Plan for Establishment and Implementation of WHMP**

<b>State or Organization</b>	<b>Name</b>
Australia	<p>Ms. Donna Kerr            Assistant Director – Safeguarding – Domestic Aviation and Reform            Department of Infrastructure, Transport, Regional Development and Communications</p> <p>Mr. Ashley McAlpine            Safety Performance Specialist            Civil Aviation Safety Authority</p>
Thailand	<p>Ms. Chomchanok Huayhong            Aerodrome Certification Officer            Civil Aviation Authority of Thailand</p> <p>Mr. Teeravee Yongwattanajiranon            Aerodrome Standard Development Officer            Civil Aviation Authority of Thailand</p>
ACI	<p>Mr. SL Wong            Head - Technical Affairs, Safety, Capacity and ATM</p>
IFALPA	<p>Mr. Brian Greeves            Safety and Technical Consultant            AUSALPA, Australian Airline Pilots Association</p> <p>Mr. Nontawat Tawewatanasarn            IFALPA Representative</p>
WBA	<p>Ms. Lalita Vaswani            Vice President, World Birdstrike Association – Global            NSW Australia</p> <p>Mr. Raman Emani            Board Member (South Asia), World Birdstrike Association            India</p>