

**AIRPORT STANDARDS DIRECTIVE 802**

**[ASD 802]**

**AIRPORT WILDLIFE HAZARD  
MANAGEMENT PLAN**



**AIRPORT STANDARDS DIVISION  
DEPARTMENT OF CIVIL AVIATION  
MALAYSIA**

**This Airport Standards Directive is published and enforced by the Director General of Civil Aviation Malaysia under the provision of the Section 24O Civil Aviation Act 1969 (Act3) – Amendment 2006.**

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First published April 2016

Printed and distributed by Department of Civil Aviation Malaysia,  
Level 1, Block Podium B, No 27 Persiaran Perdana, Precinct 4, 62618 PUTRAJAYA

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## **INTRODUCTION**

1. In exercise of the powers conferred by regulation 32 of the Civil Aviation (Aerodrome Operations) Regulations 2016, the Director General makes this Airport Standards Directive.
2. This Airport Standards Directive is published by the Director General under section 24O of Civil Aviation Act 1969 [Act 3] – Amendment 2006.
3. The Airport Standards Directive contains specifications that prescribe the Airport Wildlife Hazard Management Plan that shall be provided at international and domestic airports, and optional for Stolports.
4. The Directive has been written in general terms. Specific advice could be obtained from the Authority at:

Department of Civil Aviation Malaysia  
Airport Standards Division  
No.27 PersiaranPerdana  
Level 1,Block Podium B, Presint 4  
62618 PUTRAJAYA  
Tel : +603-8871 4000  
Fax : +603-8871 4335

## **APPLICABILITY**

5. The specification in this directive shall apply to the aspect of wildlife hazard management plan at aerodromes in any state of Malaysia, intended for use by public transport aircraft.

## **AUTHORITY**

6. The Authority referred to in this Directive is the Director General of Civil Aviation.

## **AIRPORT WILDLIFE HAZARD MANAGEMENT PLAN (AWHMP)**

7. Aerodrome Operator shall establish AWHMP for the aerodrome under their responsibility. The Plan shall encompass but not limited to the following-
  - a) Wildlife hazard reporting system;
  - b) Wildlife strikes reporting system;
  - c) Airport Wildlife Hazard Monitoring Team;

- d) Airport wildlife hazard Monitoring program;
  - e) Airport Wildlife Hazard Report and Strike Assessment Team;
  - f) Airport wildlife hazard report and strike assessment program;
  - g) Wildlife hazard control and reduction methods; and
  - h) Airport Wildlife Hazard Management Organization.
8. The AWHMP is recommended to be formulated as per **Appendix A**. However, Aerodrome Operator may establish other models but must demonstrate that the risk by wildlife hazard at aerodrome is managed at an Acceptable Level of Safety (ALOS).

### **WILDLIFE HAZARD REPORTING SYSTEM**

9. The Flow Chart of wildlife hazard reporting system should be attached to the AWHMP as **Appendix B**.
10. Airline Operators, Ground Handlers, airport tenants, ATC Tower, AFRS Tower, airport operations and maintenance units are required to report the presence of wildlife at, or in the vicinity of the aerodrome to the Aerodrome Operator.
11. Reporting of wildlife hazard at aerodromes shall be made using written report or email and forward to the Aerodrome Operator
12. Aerodrome Operator is responsible to submit the wildlife hazard report to Airport Wildlife Hazard Assessment Committee at airport level.

### **WILDLIFE STRIKE REPORTING SYSTEM**

13. The Flow Chart of wildlife strike reporting system should be attached to the AWHMP as **Appendix C**.
14. Wildlife strikes that occurred at, or in the vicinity of an aerodrome shall be reported to the Aerodrome Operator. Responsibilities of the following persons or department shall be described in the AWHMP:-
- a. Pilots shall report using the standard form as per **Appendix D** and **Appendix E**;
  - b. Airlines Engineering Department;
  - c. Air Traffic Controllers;
  - d. Airlines Safety Department;
  - e. Aerodrome operator.

## **AIRPORT WILDLIFE HAZARD MONITORING PROGRAM**

15. Wildlife hazard monitoring program shall be carried out by the Airport Wildlife Hazard Monitoring Team. The Team shall comprise of:-
  - a) Airport Manager or Head of Operations of Aerodrome Operator [Chairman];
  - b) Representative from Wildlife Department;
  - c) Representative from Forestry Department; and
  - d) Representative from the Local Authority.
16. Objectives of airport wildlife hazard monitoring program are:-
  - a) To determine the species and habitats of reported wildlife at the aerodrome;
  - b) To provide essential information on wildlife activities at, or in the vicinity of the aerodrome to ATC Tower and airline operators; and
  - c) To report to the Airport Wildlife Hazard Management Committee the progress of a wildlife hazard monitoring program.

## **AIRPORT WILDLIFE HAZARD REPORT AND STRIKE ASSESSMENT PROGRAM**

17. Airport wildlife hazard report and strike must undergo a safety assessment to ensure safe aerodrome operation.
18. Wildlife hazard report and strike assessment shall be performed by the Airport Wildlife Hazard Assessment Team. The Team shall comprise of:-
  - a) Airport Manager [Chairman];
  - b) DCA Manager;
  - c) Airline Operators;
  - d) Airport Wildlife Hazard Monitoring Team.
19. Objectives of airport wildlife hazard report and strike assessment are:-
  - a) To assess the wildlife hazard monitoring reports;
  - b) To assess the wildlife strikes reports;
  - c) To review the effectiveness of wildlife control and reduction methods; and
  - d) To report to the Airport Wildlife Hazard Management Committee of the wildlife hazard report and strike assessment.

## **WILDLIFE HAZARD CONTROL METHODS**

20. Airport Wildlife Hazard Management Committee shall assist Aerodrome Operator to determine suitable wildlife hazard control methods. The

methods for controlling wildlife hazard on, or in the vicinity of an aerodrome shall be described in the AWHMP.

21. Aerodrome Operator shall maintain aerodrome unpaved areas to reduce wildlife hazard by suitable methods.
22. Aerodrome Operator shall maintain airport drainage system to control wildlife hazard.
23. Aerodrome Operator shall ensure that airport buildings and installations to be inspected at regular intervals.
24. Aerodrome Operator shall ensure the installation of airport parameter fencing to prevent the entrance of wildlife into the aerodrome movement area and to comply with the following requirements-
  - a) The parameter fencing shall be provided with 0.5 meter concrete base;
  - b) Sewers, ducts or tunnels below the parameter fencing shall be barred using suitable materials;
  - c) A cleared area of 3 meter should be provided on both side of the parameter fencing/barriers; and
  - d) Inspection of aerodrome parameter fencing/barriers shall be carried-out at a regular interval.
25. To control wildlife hazard in the vicinity of the aerodrome which contribute a risk to the safety of aircraft operation, Aerodrome Operator shall:-
  - a) Advise the relevant land owner(s) or controlling authority of both the nature of the wildlife hazard and the resultant impact on the safety of aerodrome operation; and
  - b) Assist the relevant land owner(s) or controlling authority to manage the wildlife hazard.
  - c) To organize public awareness campaign to educate and notify the land owner(s) or controlling authority of the restrictions of land use in the areas

#### **WILDLIFE HAZARD REDUCTION METHODS**

26. Airport Wildlife Hazard Management Committee shall advise Aerodrome Operator in the determination of the suitable wildlife hazard reduction methods. In general, there are two methods:-
  - a) Non-lethal methods; and
  - b) Lethal methods.

27. Wildlife hazard reduction using non-lethal methods by Aerodrome Operator shall include scare or harassment technique, chemical spray of grass areas, traps, and gas canons.
28. Wildlife hazard reduction using lethal methods by Aerodrome Operator shall include shooting, poison and repellent chemical and shall be adopted after consultation or approval from respective authorities especially some wildlife may fall under protected species.
29. Airport Wildlife Hazard Management Committee shall ensure that the implementation of selected wildlife hazard reduction methods by Aerodrome Operator-
  - a) Shall not affect the safety or endanger the public;
  - b) Shall not affect the environment;
  - c) Shall be carried-out by qualified and competence personnel;
  - d) Shall comply to Wildlife Protection Act;
  - e) Should observe suitable time and weather conditions;
  - f) To notify the public, if required; and
  - g) Shall be recorded by the aerodrome operator.

#### **AIRPORT WILDLIFE HAZARD MANAGEMENT ORGANIZATION**

30. Airport wildlife hazard management organization chart shall be provided and to be attached to the AWHMP as appendix.

#### **AIRPORT WILDLIFE HAZARD ASSESSMENT COMMITTEE**

31. Airport Wildlife Hazard Assessment Committee shall be established by the Aerodrome Operator. The Committee shall include-
  - a) Airport Manager [Chairman];
  - b) DCA Manager;
  - c) Airlines Manager;
  - d) Local Authority;
  - e) Royal Malaysian Police;
  - f) Wildlife Department;
  - g) Forestry Department;
  - h) Environmental Department;
  - i) Agriculture Department;
  - j) Airport Ground handlers;
  - k) Airport Tenants,



32. Responsibilities of the Airport Wildlife Hazard Assessment Committee are as follows:-
- a) To evaluate the wildlife hazard monitoring and assessment program reports;
  - b) To evaluate the application of land use activities assessment reports;
  - c) To determine the most suitable wildlife hazard control and reduction methods to be implemented at the aerodrome;
  - d) To review the need of improving the wildlife hazard control and reduction methods;
  - e) To coordinate for expertise, when required to assist the Airport Wildlife Hazard Monitoring and Assessment Team; and

### **AIRPORT WILDLIFE HAZARDS MANAGEMENT COMMITTEE**

33. Airport Wildlife Hazards Management Committee shall be established by the Authority. The Committee shall include-
- a) Director of DCA Airport Standards Division – Chairman.
  - b) General Manager MA [Sepang].
  - c) General Manager MASB.
  - d) Senior Manager Airport Standard MAHB
  - e) Senior Manager ASMS
  - f) General Manager SATS
  - g) Panglima Operasi Udara, Tentera Udara Diraja Malaysia (TUDM)
  - h) Senior Manager PESAKA – Tanjung Manis Airport.
  - i) Airport Manager Kerteh Airport.
  - j) Deputy Director, Wildlife Department.
  - k) Deputy Director, Environmental Department.
  - l) Deputy Director, Forestry Department.
  - m) Deputy Director, DCA ATS [Safety] Division.
  - n) Airlines Safety Officer
34. Responsibilities of Airside Wildlife Hazard Management Committee shall be as follows:-
- a) Evaluation of half-yearly wildlife strikes statistic and wildlife hazards and strikes mitigation action measures progress reports presented by DCA Airport Standards
  - b) Determine and propose enhancement of wildlife hazards mitigation action measures to Airport Wildlife Hazard Assessment Team; and
  - c) Submit a yearly wildlife strikes statistic and wildlife hazards mitigation action measures progress reports to National Airport Wildlife Strikes Committee.

## **NATIONAL WILDLIFE STRIKES COMMITTEE**

35. National Wildlife Strikes Committee shall be established by the Authority. The Committee shall include the following:-
- a) Director General of Civil Aviation [Chairman];
  - b) Director of Airport Standards Division DCA;
  - c) Aerodrome operators;
  - d) Airline operators;
  - e) Pilot's Associations;
  - f) Royal Malaysian Air Force;
  - g) Wildlife Department;
  - h) Environmental Department;
  - i) Ministry of Housing and Local Government.
36. Responsibilities of National Wildlife Strikes Committee are as follows:-
- a) To develop and implementation of a national wildlife control and reduction policy;
  - b) To keep apprised of new development or serious issues and review the need for updating of policy;
  - c) Fundamental for wildlife ecological studies and research development; and
  - d) Organizing the need of wildlife hazard seminar to improve airport wildlife hazard management plan.

## **REPORTING OF WILDLIFE STRIKES STATISTICS TO NATIONAL WILDLIFE STRIKE COMMITTEE AND ICAO IBIS DATABASE**

37. The Authority is responsible to submit periodic wildlife strike statistics report to the National Wildlife Strike Committee and ICAO IBIS Database.
38. The Appendices to this Directive shall be taken, construed, read and be part of this Directive.

**DATO' SRI AZHARUDDIN ABDUL RAHMAN**  
**Director General**  
**Department of Civil Aviation**  
**Malaysia**

**Dated: 26 APRIL 2016**

## **APPENDIX A**

### **PARTICULARS TO BE INCLUDED IN THE AIRPORT WILDLIFE HAZARD MANAGEMENT PLAN (ADARP)**

#### **PART I**

1. Introduction
2. ICAO Requirement
3. Objectives
4. References of Establishment

#### **PART II**

1. Particulars of Airport
2. Airport Layout Plan

#### **PART III**

1. Airport Wildlife Hazards Management Organization
2. Members of Airport Wildlife Hazards Management Committee
3. Members of Airport Wildlife Hazards Assessment Team

#### **PART IV**

1. Required Data
2. Flow Process of Wildlife Hazard Reports
3. Flow Process of Wildlife Strike Reports
4. Responsibilities

DCA Airport Standards Operation Division email address and fax number.

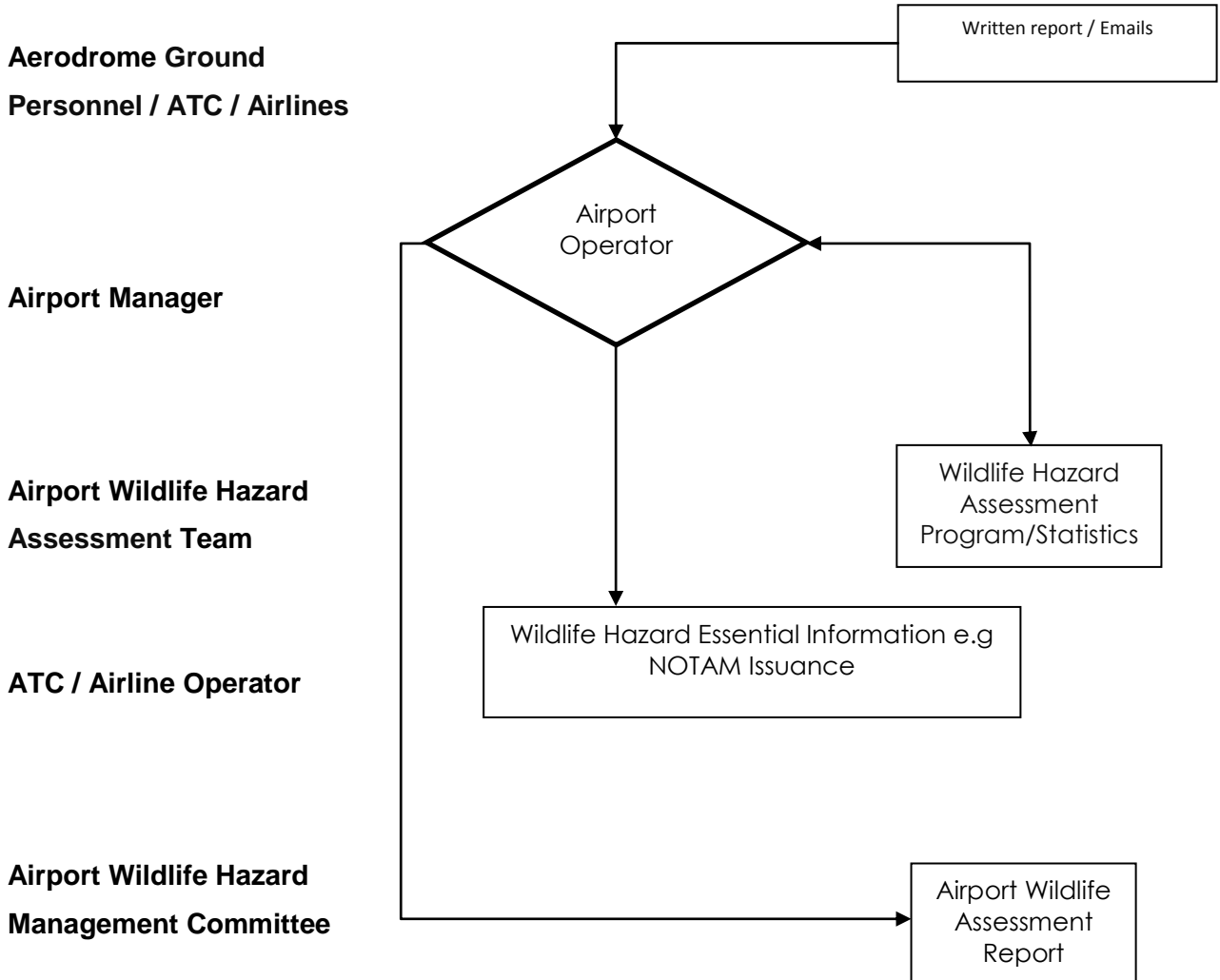
**APPENDIX B**

**WILDLIFE HAZARD REPORTING SYSTEM**

**1. FLOW PROCESS OF AIRPORT WILDLIFE HAZARD REPORTS**

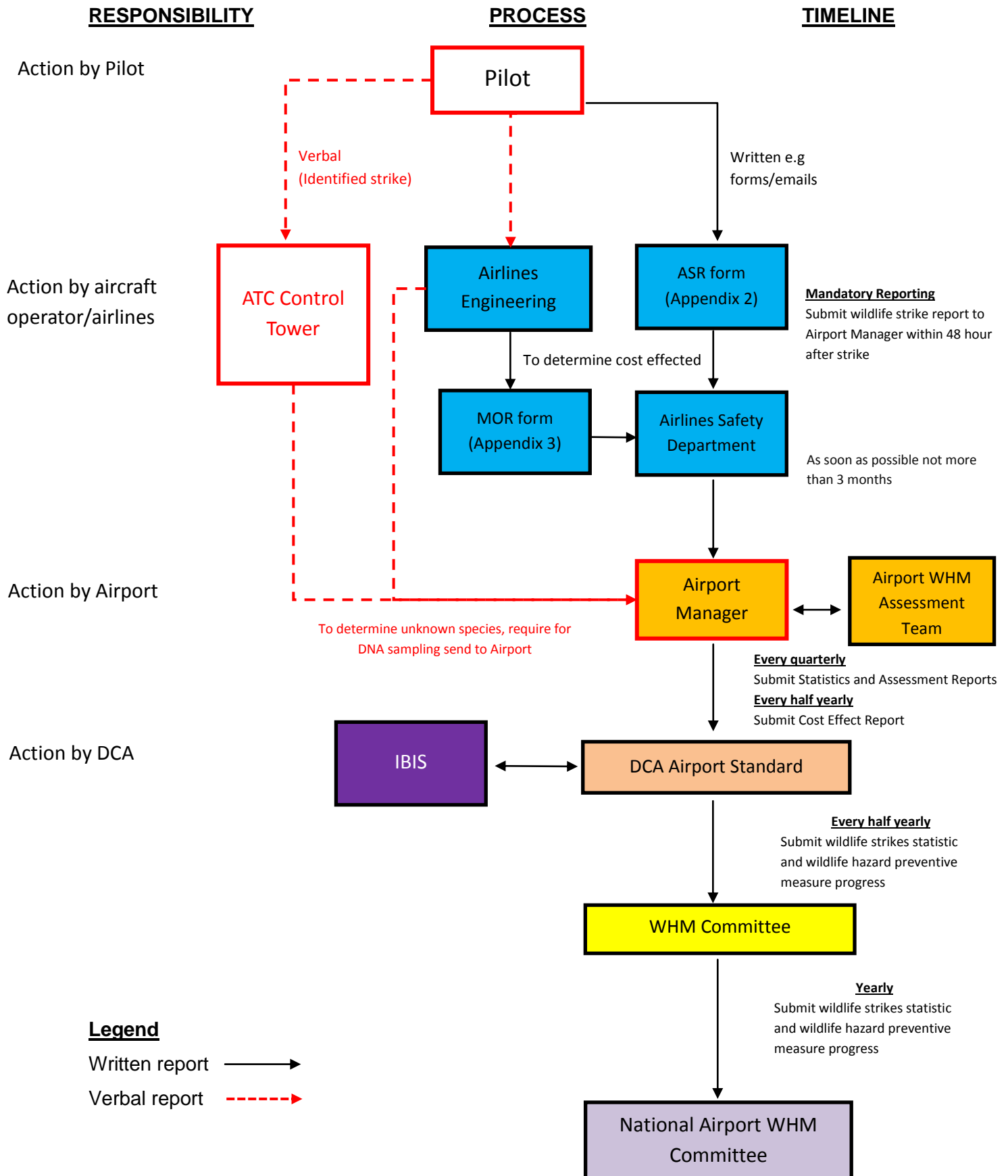
**RESPONSIBILITY**

**PROCESS**



**APPENDIX C**

**WILDLIFE STRIKE REPORTING SYSTEM**



## APPENDIX D

Standard format as Bird Strike Reporting Form Information – Manual Doc 9137 ASM  
Part 3 Wildlife Control and Reduction

### BIRD STRIKE REPORTING FORM

Send to: \_\_\_\_\_

<p>Operator..... 01/02</p> <p>Aircraft Make/Model..... 03/04</p> <p>Engine Make/Model..... 05/06</p> <p>Aircraft Registration..... 07</p> <p>Date day..... month..... year..... 08</p> <p>Local time..... 09 dawn <input type="checkbox"/> A day <input type="checkbox"/> B dusk <input type="checkbox"/> C night <input type="checkbox"/> D..... 10</p> <p>Aerodrome Name..... 11/12</p> <p>Runway Used..... 13</p> <p>Location if En Route..... 14</p> <p>Height AGL..... ft 15</p> <p>Speed (IAS)..... kt 16</p> <p>Phase of Flight 17              parked <input type="checkbox"/> A      en route <input type="checkbox"/> E              taxi <input type="checkbox"/> B        descent <input type="checkbox"/> F              take-off run <input type="checkbox"/> C    approach <input type="checkbox"/> G              climb <input type="checkbox"/> D        landing roll <input type="checkbox"/> H</p> <p>Part(s) of Aircraft</p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: 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29	<input type="checkbox"/>	lights	<input type="checkbox"/> 30	<input type="checkbox"/>	other (specify)	<input type="checkbox"/> 31	<input type="checkbox"/>	<p>Effect on Flight</p> <p>    none <input type="checkbox"/> 32</p> <p>    aborted take-off <input type="checkbox"/> 33</p> <p>    precautionary landing <input type="checkbox"/> 34</p> <p>    engines shut down <input type="checkbox"/> 35</p> <p>    other (specify) <input type="checkbox"/> 36</p> <p>Sky Condition 37</p> <p>    no cloud <input type="checkbox"/> A</p> <p>    some cloud <input type="checkbox"/> B</p> <p>    overcast <input type="checkbox"/> C</p> <p>Precipitation</p> <p>    fog <input type="checkbox"/> 38</p> <p>    rain <input type="checkbox"/> 39</p> <p>    snow <input type="checkbox"/> 40</p> <p>Bird Species* ..... 41</p> <p>Number of Birds</p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Seen 42</th> <th style="text-align: center;">Struck 43</th> </tr> </thead> 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Reported by .....  
(Optional)

\* Send all bird remains including feather fragments to:

**THIS INFORMATION IS REQUIRED FOR AVIATION SAFETY**

## APPENDIX E

### Standard format of Mandatory Occurrence Report – DCA Borang 9-OR

To be sent to:  
 Flight Operations Division  
 Department of Civil Aviation Malaysia  
 NO 27 Persiaran Perdana  
 Level 2, Block Podium B, Percinct 4  
 62618 PUTRAJAYA

### **OCCURRENCE REPORT** DEPARTMENT OF CIVIL AVIATION MALAYSIA

(DCA Borang 9 - OR)

Fax to: +603 8871 4334  
 or e-mail to  
 safety.MOR@dca.gov.my

<b>Complete all sections where information is relevant. For multi-choice boxes, indicate which entry is appropriate.</b>						Date received by DCA <input style="width: 100%;" type="text"/>		DCA Occurrence No. <input style="width: 100%;" type="text"/>		
Aircraft Type and Series <input style="width: 100%;" type="text"/>		Registration <input style="width: 100%;" type="text"/>		Operator <input style="width: 100%;" type="text"/>		Date Of Occurrence <input style="width: 100%;" type="text"/>		Flight Phase <input style="width: 100%;" type="text"/>		Nature Of Flight <input style="width: 100%;" type="text"/>
<b>FLIGHT AND WEATHER DETAILS</b>								PARKED <input type="checkbox"/>	PAX <input type="checkbox"/>	
								TAXYING <input type="checkbox"/>	FREIGHT <input type="checkbox"/>	
Flight No <input style="width: 100%;" type="text"/>	DAY <input type="checkbox"/> NIGHT <input type="checkbox"/>	Wind <input style="width: 100%;" type="text"/>	Runway Used <input style="width: 100%;" type="text"/>	Precipitation	Icing	Turbulence		TAKE OFF <input type="checkbox"/>	SURVEY <input type="checkbox"/>	
From <input style="width: 100%;" type="text"/>	TWILIGHT <input type="checkbox"/> Time <input style="width: 100%;" type="text"/>	IAS <input style="width: 100%;" type="text"/>	State <input style="width: 100%;" type="text"/>	RAIN <input type="checkbox"/>	LIGHT <input type="checkbox"/>	LIGHT <input type="checkbox"/>		INIT CLIMB <input type="checkbox"/>	PLEASURE <input type="checkbox"/>	
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Geog. Position <input style="width: 100%;" type="text"/>	OAT <input style="width: 100%;" type="text"/>	ICE <input type="checkbox"/>	LIGHT <input type="checkbox"/>	SNOW <input type="checkbox"/>	MOD <input type="checkbox"/>		DESCENT <input type="checkbox"/>		CLUB/GROUP <input type="checkbox"/>	
		SLUSH <input type="checkbox"/>	HEAVY <input type="checkbox"/>			EXTREME <input type="checkbox"/>		HOLDING <input type="checkbox"/>	PRIVATE <input type="checkbox"/>	
		Cloud Type <input style="width: 100%;" type="text"/>						APPROACH <input type="checkbox"/>	POSITIONING <input type="checkbox"/>	
		Height / Ft <input style="width: 100%;" type="text"/>						LANDING <input type="checkbox"/>	FERRY <input type="checkbox"/>	
		Amount / 8ths <input style="width: 100%;" type="text"/>						CIRCUIT <input type="checkbox"/>	TEST <input type="checkbox"/>	
								AEROBATICS <input type="checkbox"/>	TRAINING <input type="checkbox"/>	
								HOVER <input type="checkbox"/>	PARACHUTING <input type="checkbox"/>	
									TOWING <input type="checkbox"/>	
<b>NARRATIVE</b>										
<b>ENGINEERING DETAILS</b>										
	Aircraft Constructor's No <input style="width: 100%;" type="text"/>		Engine Type & Series <input style="width: 100%;" type="text"/>		Maintenance Organisation <input style="width: 100%;" type="text"/>		Maintenance <input type="checkbox"/>			
					Tel No <input style="width: 100%;" type="text"/>		Ground Handling <input type="checkbox"/>			
							Taxi <input type="checkbox"/>			
							Unattended <input type="checkbox"/>			
Component / Part <input style="width: 100%;" type="text"/>	Location on aircraft <input style="width: 100%;" type="text"/>		Manual Reference <input style="width: 100%;" type="text"/>				<b>Maintce Prog</b>			
							O.C. <input style="width: 100%;" type="text"/>	C.M. <input style="width: 100%;" type="text"/>	H.I. <input style="width: 100%;" type="text"/>	
Manufacturer <input style="width: 100%;" type="text"/>	Part No <input style="width: 100%;" type="text"/>		Serial No <input style="width: 100%;" type="text"/>		TOTAL	Since O/H or repair <input style="width: 100%;" type="text"/>	Since Inspection <input style="width: 100%;" type="text"/>	Manufacturer Advised		
					HOURS <input style="width: 100%;" type="text"/>			YES <input type="checkbox"/>		
					CYCLES <input style="width: 100%;" type="text"/>			NO <input type="checkbox"/>		
					LANDINGS <input style="width: 100%;" type="text"/>					
Is there any published Airworthiness Information or control procedures (e.g. AD, SB etc) relevant to occurrence				YES <input type="checkbox"/>	NO <input type="checkbox"/>	Reference No and Compliance Status of Aircraft or Equipment <input style="width: 100%;" type="text"/>				

Report	If report is submitted Voluntarily i.e. not subject to mandatory requirements		
ORIGINAL <input type="checkbox"/>	<input type="text"/>		
SUPP <input type="checkbox"/>	<input type="text"/>		
Reporter's Investigation	Can the information be disseminated in the interest of safety		
NIL <input type="checkbox"/>	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
OPEN <input type="checkbox"/>	Organisation		
CLOSED <input type="checkbox"/>	<input type="text"/>		
Flight Data Record Held			
YES <input type="checkbox"/>	Position	Reference No	Date
NO <input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Address (if reporter wishes to be contacted privately)		Tel No	
<input type="text"/>		<input type="text"/>	
		Name	
<input type="text"/>		<input type="text"/>	

**NARRATIVE** (if required)