

AERONAUTICAL CIRCULAR CIVIL AVIATION AUTHORITY – MACAO, CHINA

SUBJECT:

Bird Strike Reporting

EFFECTIVE DATE:

12 March 2009

CANCELLATION:

AIC A 04/95.

GENERAL:

The President of Civil Aviation Authority – Macao, China, in exercise of his power under Paragraph 89 of the Air Navigation Regulation of Macao (ANRM) and Article 35 of the Statutes of Civil Aviation Authority, approved by the Decree-Law 10/91/M, establishes Bird Strike Reporting System.

1 Introduction

Collect statistical and analyzed elements that allow AACM to evaluate with realism and inform the appropriate International Organizations about the situation of the Macao, regarding the bird strikes and take adequate steps to prevent accidents or incidents.

2 Procedure

- 2.1 It is necessary to fill a bird strike reporting form whenever a strike occurs, independently of the type of aircraft involved or the degree of caused damages. The registration of the strike, even with no damages, statistically is important to forecast potential risks.
- 2.2 The forms may be obtained from the Airport Operations Services, in MIA, or from AACM.
If by any other reason, is not possible to get the form, the communication of one strike should be done clearly to the services below mentioned.

2.3 After filling, the forms will be handed over or sent to Airport Operations Services of MIA or to AACM, mentioned in 3.2.

2.4 The Airport Operations Services shall fill one form and send it to AACM, when:

a) Taking off aeroplanes report birds strike;

b) The carcass of the birds showing indication of strike was found in the aerodrome.

One copy of all the form sent or handed over to Airport, as well as the subsequent information that will be available, should be sent to AACM.

2.5 The correct identification of the birds species involved in the strike, is important for the comprehension of the occurrence and for the implementation of control measures to reduce the strike risks. In all the cases in which carcass and other corpses, including feather are found, these shall be sent for identification including a note with date, place, operator and registration of the aircraft, to AACM.

Note: The corpses shall be wrapped and sealed in plastic , wrapped again with an absorbent paper and placed in a box with visible indication of “Bird Strike with Aircraft”.

2.6 When there is indication of any bird strike with aircraft, by technical staff in maintenance, a form shall be filled and sent directly to AACM, with or without the corpse or feather eventually collected.

- END -

BIRD STRIKE REPORTING FORM

Send to: Civil Aviation Authority – Macao, China

Operator 01/02

Aircraft Make/Model 03/04

Engine Make/Model 05/06

Aircraft Registration 07

Date day month year 08

Local Time 09

dawn _A day _B dusk _C night _D

..... 10

Aerodrome Name 11/12

Runway Used 13

Location if En Route 14

Height AGL ft ₁₅

Speed (IAS) kt ₁₆

Phase of Flight ₁₇

parked <input type="checkbox"/> _A	enroute <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

Effect on flight

none	<input type="checkbox"/> 32
aborted take-off	<input type="checkbox"/> 33
precautionary landing	<input type="checkbox"/> 34
engines shut down	<input type="checkbox"/> 35
other (specify)	<input type="checkbox"/> 36

Sky condition ₃₇

no cloud	<input type="checkbox"/> A
some cloud	<input type="checkbox"/> B
overcast	<input type="checkbox"/> C

Precipitation

fog	<input type="checkbox"/> 38
rain	<input type="checkbox"/> 39
snow	<input type="checkbox"/> 40

Bird Species * 41

Number of Birds

	Seen ₄₂	Struck ₄₃
1	<input type="checkbox"/> _A	<input type="checkbox"/> _A
2-10	<input type="checkbox"/> _B	<input type="checkbox"/> _B
11-100	<input type="checkbox"/> _C	<input type="checkbox"/> _C
more	<input type="checkbox"/> _D	<input type="checkbox"/> _D

Part(s) of Aircraft

	Struck		Damaged
radome	<input type="checkbox"/>	18	<input type="checkbox"/>
windshield	<input type="checkbox"/>	19	<input type="checkbox"/>
nose (excluding above)	<input type="checkbox"/>	20	<input type="checkbox"/>
engine no. 1	<input type="checkbox"/>	21	<input type="checkbox"/>
2	<input type="checkbox"/>	22	<input type="checkbox"/>
3	<input type="checkbox"/>	23	<input type="checkbox"/>
4	<input type="checkbox"/>	24	<input type="checkbox"/>
propeller	<input type="checkbox"/>	25	<input type="checkbox"/>
wing/rotor	<input type="checkbox"/>	26	<input type="checkbox"/>
fuselage	<input type="checkbox"/>	27	<input type="checkbox"/>
landing gear	<input type="checkbox"/>	28	<input type="checkbox"/>
tail	<input type="checkbox"/>	29	<input type="checkbox"/>
lights	<input type="checkbox"/>	30	<input type="checkbox"/>
other (specify)	<input type="checkbox"/>	31	<input type="checkbox"/>

Size of Birds ₄₄

small	<input type="checkbox"/> _S
medium	<input type="checkbox"/> _M
large	<input type="checkbox"/> _L

Pilot Warned of Birds ₄₅

yes _Y no _X

Remarks (describe damage, injuries and other pertinent information) 46/47

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Reported by
(Optional)

* Send all bird remains including feather fragments to:

THIS INFORMATION IS REQUIRED FOR AVIATION SAFETY

BIRD STRIKE REPORTING FORM

Send to: Civil Aviation Authority – Macao, China

SUPPLEMENTARY BIRD STRIKE REPORTING FORM OPERATOR COSTS AND ENGINE DAMAGE INFORMATION

A. BASIC DATA

Operator 01/02
 Aircraft Make/Model..... 03/04
 Engine Make/Model..... 05/06
 Aircraft Registration..... 07
 Date day month year 08
 Aerodrome/Location if known 11/12/14

B. COST INFORMATION

Aircraft time out of service hour 52
 Estimated cost of repairs or replacement U.S.\$ (in thousands) 53
 Estimated other costs
 (e.g. loss of revenue, fuel, hotels) U.S.\$ (in thousands) 54

C. SPECIAL INFORMATION ON ENGINE DAMAGE STRIKE

Engine position number	1	2	3	4
Reason for failure/shutdown	55	56	57	58
uncontained failure	<input type="checkbox"/> A	<input type="checkbox"/> A	<input type="checkbox"/> A	<input type="checkbox"/> A
fire	<input type="checkbox"/> B	<input type="checkbox"/> B	<input type="checkbox"/> B	<input type="checkbox"/> B
shutdown - vibration	<input type="checkbox"/> C	<input type="checkbox"/> C	<input type="checkbox"/> C	<input type="checkbox"/> C
shutdown - temperature	<input type="checkbox"/> D	<input type="checkbox"/> D	<input type="checkbox"/> D	<input type="checkbox"/> D
shutdown - fire warning	<input type="checkbox"/> E	<input type="checkbox"/> E	<input type="checkbox"/> E	<input type="checkbox"/> E
shutdown - other (specify)	<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> Y
.....				
shutdown - unknown	<input type="checkbox"/> Z	<input type="checkbox"/> Z	<input type="checkbox"/> Z	<input type="checkbox"/> Z
Estimated percentage of thrust loss *	___59	___60	___61	___62
Estimated number of birds ingested	___63	___64	___65	___66

Bird species 41

* These may be difficult to determine but even estimates are useful.

Send all bird remains feather fragments to:

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