

Wildlife Hazards Management at Egyptian Airports



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EGYPT'S Aviation History



- 1. Pilot\Mohamed Sedqi is the first Egyptian Pilot landed his plane at Heliopolis Airport.**
- 2. On 1932 MISR AIRWORK the first Egyptian National Airline was established. Now (**EGYPTAIR**).**
- 3. ALMAZA Airport was the first Egyptian Airport Officially established.**
- 4.Loftia elnadi is the first Female Pilot in Egypt.Arab female pilots look up to lotfia elnadi as an ICON of Gender Equality.**

International and National civil aviation legislation



1.INTERNATIONAL Aviation requirements

ICAO ANNEX 14.V1 (9.4) WILDLIFE STRIKE HAZARD REDUCTION

1. International Civil Aviation requirements

ICAO ANNEX 14.V1 (9.4)

THE WILDLIFE STRIKE HAZARD ON, OR IN THE VICINITY OF, AN AERODROME SHALL BE ASSESSED THROUGH:

A) THE ESTABLISHMENT OF A NATIONAL PROCEDURE FOR RECORDING AND REPORTING WILDLIFE STRIKES TO AIRCRAFT.

2. National Civil Aviation Legislations In Egypt.

ECAR 139.335.D

ECAR 139.345

EAC 139-20



A low-angle photograph of several modern skyscrapers reaching towards a clear sky. The buildings are dark and have many windows. The image is used as a background for the slide.

National Legislations shall comply with International Legislations



Ecological study and Wildlife Hazard Management Plan

- Each Aerodrome Operator should provide an **Ecological study**, acceptable to the ECAA.
- This study should contain at least the following:
 - (1) Analysis of the event.
 - (2) Identification the types, numbers, locations, and seasonal occurrences of wildlife observed.
 - (3) Identification the location of features that attract wildlife.
 - (4) Description of the wildlife hazard.

- ECAA determines whether or not there is a need for a **Wildlife Hazard Management Plan**.



- The **Wildlife Hazard Management Plan** should include at least the following:

- (1) The persons responsible for implementing the plan.
- (2) Priorities for needed habitat modification and changes in land use .
- (3) Identification of resources to implement the plan.



- Periodic evaluation and review of the **Wildlife Hazard Management plan** for Effectiveness in dealing with the wildlife hazard.

EVALUATION



- A training program needed to carry out the **Wildlife Hazard Management Plan**.



- **Wildlife strike reports shall be collected and forwarded to ECAA to forward to ICAO for inclusion in the ICAO Bird Strike Information System (IBIS) data base.**

BIRD STRIKE REPORTING FORM

Send to:

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 <input type="checkbox"/> A day <input type="checkbox"/> S dusk <input type="checkbox"/> C night <input type="checkbox"/> 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 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	
Part(s) of Aircraft	
radome <input type="checkbox"/>	Struck 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"/>

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	
1 <input type="checkbox"/> A	
2-10 <input type="checkbox"/> B	
11-100 <input type="checkbox"/> C	
more <input type="checkbox"/> D	
Struck 43	
1 <input type="checkbox"/> A	
2-10 <input type="checkbox"/> B	
11-100 <input type="checkbox"/> C	
more <input type="checkbox"/> D	
Size of Bird 44	
small <input type="checkbox"/> S	
medium <input type="checkbox"/> M	
large <input type="checkbox"/> L	
Pilot Warned of Birds 45	
yes <input type="checkbox"/> Y	
no <input type="checkbox"/> X	
Remarks (describe damage, injuries and other pertinent information)	46/47

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LAND USE.

1.Application:-

- For construction (any project – land use – entertainment -).

2.Non Compliance with a permit:-

- It will lead to enforcement by law.

Each aerodrome Operator shall make coordination with all stakeholder in and out Airport.



Certified Egyptian Airports

There are seven certified airports in Egypt.

Sharm Elsheikh

Cairo

Aswan

Marsa Allam

Luxor

Borg elarab

Herghada

Certified Egyptian Airports

There are four Certified airports located on bird migration routes. (Sharm Elsheikh – Aswan – Herghada – Luxor).



Certified Egyptian Airports

Each of these airports has tools to monitor and control wildlife and birds.

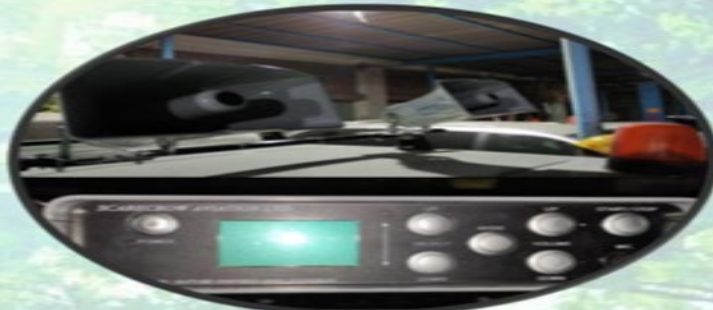




Wildlife control tools and methods at airports In Egypt.



نظارات مكبره للرصد (درايبل)
Binoculars متخصصه لرصد الطيور



جهاز Amplifier لضبط الاصوات مزود
بمكبرات الصوت والمثبتة على السيارة
Scarecrew premier 2020.



مكبرات الصوت المحموله
Scarecrew patrol 2 Handheld



جهاز التشتيت الضوئي عن بعد
Aerolaser handheld



State Safety Program

**National state
safety high
committee**

**Technical
committee**

**AERODR
OME**

**PERSON
AL
LICENSE**

**Air
navigati
on
system**

**Airwort
hiness**

Operation

State Safety Program

Wild life hazard management high committee

1. Adopting & updating the National procedure
2. Reviewing aviation safety performance against the state's safety policy.
3. Providing resources to support all aviation safety-related matters.

State Safety Program Committee

Aerodrome technical committee

The Aerodrome Committee monitors the performance of airport operators especially in the field of state performance indicator such as (Bird Strike).



Bird migration and areas with sensitive fauna

- A new **Map** will be publish (soon) showing :
 1. The Location of Bird Concentrations in EGYPTIAN AIRPORTS.
 2. MIGRATION ROUTES And The Procedures required for pilots to follow when using Egyptian airspace.

[illegible]

BIRDS MIGRATION ROUTES

