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# WILDLIFE HAZARD MANAGEMENT PROGRAMME

# Regulatory Framework

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- The Civil Aviation Act- *Provides for land use around aerodromes.*
- The Civil Aviation (Aerodromes) Regulations, 2019
  - Part VIII – Wildlife hazard management
- Transposed requirements from Annex 14, Volume 1 - Para 9.4, and
- Adopted some requirements from ICAO Doc 9137 Part 3 – Wildlife Hazard Management into the Regulations i.e
  - Ecological study
  - Wildlife Hazard Management Plan
  - Establishment of National Committee on Wildlife Hazard Management

# Regulatory Framework

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- Require aerodrome operator to conduct an ecological study when;
  - ✓ an air carrier aircraft experiences multiple bird strike or engine ingestion;
  - ✓ an air carrier aircraft experiences a damaging collision with wildlife other than birds; or
  - ✓ wildlife of a size or in numbers capable of causing an event is observed to have access to any aerodrome flight pattern or movement area.

# Regulatory Framework



- Require Aerodrome Operator to establish a Wildlife Hazard Management (WHM) Plan on the basis of an ecological study.
- WHM plan includes:
  - ✓ Procedures,
  - ✓ Persons responsible,
  - ✓ Habitat management,
  - ✓ Resources for plan implementation,
  - ✓ Wildlife hazard control measures,
  - ✓ training programs,
  - ✓ evaluation and review etc.

*Submitted along the aerodrome manual during aerodrome certification*



# Regulatory Framework

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- Require establishment of National committee on wildlife hazard management responsible for;
  - ✓ analysing wildlife hazard problems at aerodromes;
  - ✓ carrying out research and development on wildlife hazard management;
  - ✓ acting as an interface between the aerodrome operators and air operators;
  - ✓ advising aerodrome operators on wildlife hazard management; and
  - ✓ reviewing the effectiveness of the wildlife hazard management programmes at aerodromes.

# Why Wildlife Hazard Management?



- Increasing populations of many bird species hazardous to aviation
- Adaptation of birds to urban settings
- Increased liability issues with bird strikes
- Increasing air traffic
- Small aerodromes with low traffic facing challenges of managing birds and wildlife



# Aerodrome wildlife hazard management programs



- The Wildlife Hazard Management committee is to composed of representatives from;
  - UCAA – The Regulator and chaired by the DG UCAA
  - UCAA – Aerodrome Operator EIA and Regional Aerodromes
  - Air Traffic Control – ANSP
  - Aerodrome Operators – Selected aerodromes
  - Airlines Uganda Airlines and AOC for EIA
  - Ministry of Works and transport – AIG Unit
  - Ministry of Agriculture, Animal Industry and Fisheries
  - Uganda Wildlife Authority
  - Uganda People’s Defense Air forces
  - Department of Zoology, Entomology and Fisheries Sciences, Makerere University.

# Aerodrome wildlife hazard management programs

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- Established a procedure for reporting and recording wildlife strikes.
- Annually forward wildlife strike reports to ICAO for inclusion ICAO Bird Strike Information System (IBIS) database.
- Initially the focus was on international airport - Entebbe International Airport (EIA)
- Currently EIA has established and is running a wildlife hazard management.
  - *Risk based*



# Aerodrome wildlife hazard management programs

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- EIA Bird hazard and Wildlife Control committee is composed of;.
  - EIA representatives – *chair and technical personnel (SMS, AD Maintenance and AD Planning)*
  - Air Traffic Control
  - Airlines BAR/AOC
  - Ground Handlers
  - Ministry of Agriculture, Animal Industry and Fisheries
  - Uganda Wildlife Authority
  - Entebbe Municipal Council
  - Local Council leaders
  - Aviation Police
  - Uganda People's Defense Airforces, etc

# Aerodrome wildlife hazard management programs



## ***Other Aerodromes:***

- EIA is assisting other aerodromes to carry out assessments,
  - ✓ Soroti
  - ✓ Kajjansi

*Aerodromes with increasing number of aircraft movements and reported bird strikes*
- Encouraging Aerodrome Operators of small aerodromes to formulate simple plans based on aerodrome operations.
  - ✓ Include wildlife hazard management in the responsibility of aerodrome Safety Committee

# Aerodrome under construction



- Kabaale International Airport in Hoima is still under construction.
- This was assessed concerning its Wildlife hazard management needs and some recommendations have been made to the contractor.
- The assessment has generated discussions on amending regulations to require an ecological study at aerodrome site identification phase.



# National Committee on Wildlife Hazard Management



- In the process of inaugurating the National committee on wildlife since the wildlife hazard management activities are increasing.
- Currently the functions of the committee are being executed by the Wildlife hazard management committee of EIA.



# Challenges

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- Conflicting laws/regulations affecting Aviation and environmental management.
- Lack of Site specific Wildlife Hazard Management programs born from ecological studies of those aerodromes.
- Land use around aerodromes attracting wildlife to aerodromes.
- Limited number of trained personnel – Specialists in wildlife
- Increasing number of unknowns from the bird strike reports
- Low income generated by some of these aerodromes makes the programs difficult to defend in budgetary terms.
- Sometime reports from air operators are made late and AD operators are not able investigate

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Thank you

