Hurghada International Airport Certification
Challenges and lessons learned
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1. Overview of Hurghada International Airport /Certification History

2. The Challenges and lesson learned
   a: Dealing with Non compliance
   b: Projects (WIP)
   c: Maintain Certification Requirements

   Maintenance / Operation
   Wildlife Hazard Management
   SMS implementation
Terminal 1
4500 PASSENGERS/HOUR
7.500.000 PASSENGERS/YEAR

Terminal 2
3000 PASSENGERS/HOUR
4.500.000 PASSENGERS/YEAR

Runways

RWY 34 L / 16R is code 4F-Cat1
RWY 34 R /16 L is code 4E-Cat1

The Airport had certificate in 2008. And its Renewal has been going on since then.
HEGN CONSIDERS THE EFFORT DONE IN CERTIFICATE & PREPARATION OF ACM IS A STEP AND Added value TO SAFETY PERFORMANCE
ECAR 139.201
- Physical Characteristics
- Emergency Planning
- ARFF
- Self inspection
- Visual aids
- WIP
- Obstacles control
- Lighting
- Zoning regulation
- WILD LIFE HAZARD CONTROL
- SMSM

- SOC  •  MAINTENANCE MANUAL  •  COMPLIANCE Plan RISK ASSESMENT
Airport Deviations
Terrain in RWY strip

Risk assessment is done and as mitigation, it is marked with flags, lighted by obstruction lights and published in the AIP. In addition, we keep monitor friction characteristics and weather condition.
A fence is built surrounding the entrance.

A 22 Km of airport outside fence is built equipped with CCTV surveillance systems & monitor by civil-military.
Fences & Gates
Aeronautical Study – Taxiway 'A' is separated from runway 16L-34R by 165 meters.

- The separation is published in AIP.
- A M.O.A signed between NANSC and EAC that A is not used for A/C with WS more than 30m while there is an aircraft landing or takeoff.
- Random and periodic check is done by operation supervisor and recorded in log book.
- With 2 RWY the effect will be in case of RWY 34L /16 R closed due to maintenance.
Exemption
Sings
Fuel person training
Training
APRON2 AFL CONTROL
Training

• Safety dep.
• Maintenance dep.
• Operation dep.
• A plan of training for two years is prepared and 78% is done.
• A five years plan in progress
Work In Progress
WIP
Project scope

Build a RWY 34 L/16 R

a satellite fire fighting station

a drainage system

Repaved of RWY 34 R/16 L

upgrade of visual aids and electrical stations

apron1 maintenance project
Fences equipped with flags and obstruction lights
WIP – M.O.A -Standard taxi routes –equipment routes
A follow up meeting is done weekly
A RST is held several times before start
A program of training for engineers and technicians take place
Review the ECAR 139 Items - Identifying any possible future negative impact on safe operation

Review the project action plan - unfinished items

Review ECAA Reports

Risk management

Monitor mitigation measures and corrective action

The airport increase the times of inspection and pilot survey that helps a lot

evaluate
Management Of Change

A comparison between start of apron2 and new RWY can show the effort in preparation of management of change (No Surprise)
RWY STRIP Maintenance project

ECAR 139 (309-3011-315

before
RWY STRIP Maintenance project
Apron Flood lighting
ECAR 139.323

Mobile Light used until A Project to increase the lux in Apron1 is finished according to action plan
• Periodic check of no. of ARFF staff is checked
• several successful recorded on site test is done to achieve respsns time

A resource management study is done for distribution of ARFF personal

ARFF Equipments
• ARFF equipment is completed according
Rescue and fire fighting training program

ECAR 139.335

Rescue and fire fighting training program

Protective clothing and respiratory protection.

Emergency aircraft evacuation assistance.

Fire fighting under pressure.

Airfare and grid map.

First aid response time.

Use of the fire hoses and other equipment required.
Full scale exercise
Real Case
Two supervisors had completed an aviation fuel training course in fire safety.

- Upgrade the station fire system by hiring a consultant to upgrade the fire station's network.

- Substitute 2 water pump with others a discharge rate of 1500 gallon / min.
The AIP is updated to include a new movement area, and it is reviewed periodically.
Quality Management System

- Now we prepare for ISO 9001:2015 transition which planned to be completed in 07/2018.
- Quality management system integrated with SMS by covering the activities in the Air side as “Apron management processes, Runway self inspection process, Maintenance processes, Aeronautical Revenue process and safety process” which support in safety process enhancement.
The airport completed the equipment's of bird observation according to the plan and it is activated according to action plan. 

Pest & wildlife Control Company is hired.
SMS Implementation
Once the gap analysis is complete and fully documented, the resources, structures and arrangements that have been identified as missing or deficient will form, together with those already existing, the basis of **THE SMS IMPLEMENTATION PLAN**.
Dear Captains,
Welcome to Egyptian Airspace, The Egyptian Airport Company "Hurghada International Airport" is currently carrying out a safety survey to know your opinion and your suggestions in order to improve on existing aviation safety.

AIR NAVIGATION SERVICES

A: Radar Services
- v. good
- good
- bad
- Radar Coverage
- v. good
- good
- bad

B: Communication
- Area
- Approach
- Tower
- Ground (121.9 MHz)
- v. good
- good
- bad

C: Navigation Aids (En-Route)
- VOR-DME
- v. good
- good
- bad

D: Navigation Aids (Approach Landing)
- ILS
- v. good
- good
- bad

E: ATS
- A/C Radar Services
- Vectoring Final App.
- Phraseology (rate/quality)
- Delaying
- FPL/RPL Services
- PIB Services
- v. good
- good
- bad

F: Surface Movement Guidance Control System
- v. good
- good
- bad
- Aeronautical Beacon
- Approach Lighting System
- PAPI System
- RWY Marking
- Taxiway Marking

Obstruction Marking & Lights
- v. good
- good
- bad
- RWY Threshold Light
- RWY Edge Light
- RWY End Light
- TWY lights
- Apron Flood Lights
- Wind cone
- RWY Signs
- TWY Signs

Braking action
- Evaluation of Pavement
- RWY Strips
- FOD

H: Taxiway
- v. good
- good
- bad

I: Apron
- v. good
- good
- bad
- Size of aircraft stands
- Marshall
- Follow me
- VDGs
- Bridges
- Ground services (speed/quality)
- Fuel services (speed/quality)
- FOD

I: Others
- v. good
- good
- bad
- Surrounding Laser Emission
- Confusion of new HGIR RWY
- Wildlife and Birds

Please write your comment here:

Company:
Registration:

AIRPORT SERVICES

- v. good
- good
- bad

Date:
Aircraft Type:

Please fill in the data about the occurrence of an event that needs correction.

When you finish the form, you must attach it to the airport safety officer or put it in a secret report box or through (e-mail to Hurghada airport safety management).

Signature:
Reported by:
Date:

• Location:
• Time:

If you think it is very likely to happen again:
- Nader
- Unexpected
- Likely
- May happen
- May happen again
- Very likely

If you think it is very likely to cause harm:
- Minor
- Major
- Serious
- Very serious
- Catastrophic

The completed form will be filled by the safety management and the safety committee (SAG) and the report will be sent to the volunteer if the name is written.
Safety Committees

- Safety awareness is implemented Periodically
- coordination between all services providers SMS
There are several safety bulletin are published by safety dep.
INDECATORS & TARGETS

SAFETY PERFORMANCE INDICATORS FOR HEGN AIRPORT ARE DETERMINED FROM ECAA AND THEY ARE MONITORED MONTHLY AND SENT TO ECAA PERIODICALLY.
We think we on right way and we promise to continue