



Heliport certification and compliance in Egypt

Central administration of Aerodrome Safety & Standards

Seventh Meeting of the Aerodrome Safety, Planning and Implementation Group
(ASPIG/7) (Riyadh, Saudi Arabia, 6 -10 April 2025)

Table of Contents

- 1. Introduction**
- 2. Regulatory Standards for Heliports Certification**
- 3. Aerodrome / Heliport Types**
 - **Offshore heliports**
 - **Onshore heliports**
 - **Aerodrome served petroleum Co. (fixed wing aircraft)**
- 4. Heliport Certification Process (OFFSHORE , ONSHORE Heliports)**
 - **Administrative Inspection**
 - **On-Site Inspection**
- 5. Aerodrome Certification Process (aerodrome served Fixed Wing aircraft)**

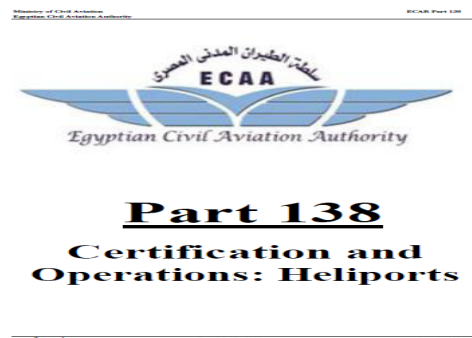
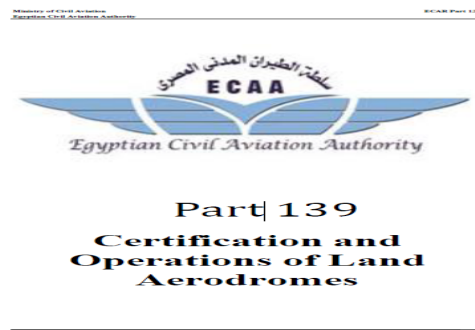
1. Introduction

- Heliport certification process ensures that offshore , onshore helicopter landing areas and fixed wing Aerodromes meet regulatory safety and operational standards.

2. Regulatory Standards for Heliports Certification

Heliports must comply with National standards :

- ECAR 138 (Heliports) comply with ICAO Annex 14, Volume II (Heliports), EAC 139-27
- **Aerodrome served petroleum Co.**
- ECAR 139



3. Aerodrome / Heliport Types

Heliport Types

- Offshore heliports

- **Helidecks** offshore platforms/ ON vessels/.....

Onshore heliports

- **Surface-Level Heliports** (ground-based).
- **Elevated Heliports** (on rooftops or platforms).

In Egypt

We have about 120 Helidecks(offshore) excluding all **Shipboard Heliports** comes outside Egypt ,
11 surface level Heliports, (include Hospital Heliport)
and 7 Certified Petroleum Fixed Wing Airports.

[xlsx|حصر بالمهابط.](#)

Cont.

A- OFFSHORE HELIPORTS:

- Petroleum HELIDECKS,
- Small vessels
- Mobile offshore drilling units: self-elevating unit (jack-up)
- Drill ships

BALTIM EAST Helideck

Petropel Company



Small vessels

AHMED FADEL VESSEL



Mobile offshore drilling units: self-elevating unit (jack-up)
ADES Company
ADMARINE V



Drill ships

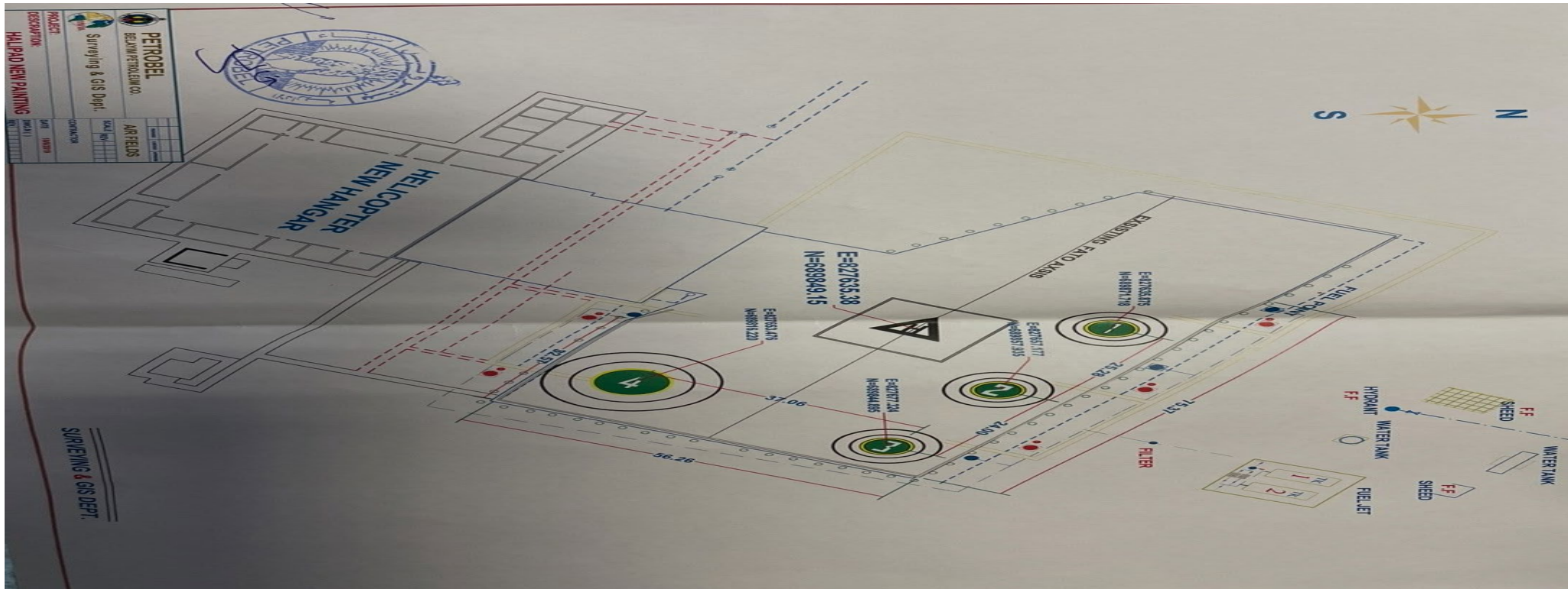
SAIPEM 10000



B- ONFSHORE HELIPORTS

We have in Egypt about 11 surface level Heliports,
(includes Hospital Heliport)

Ex: ADLY Heliport



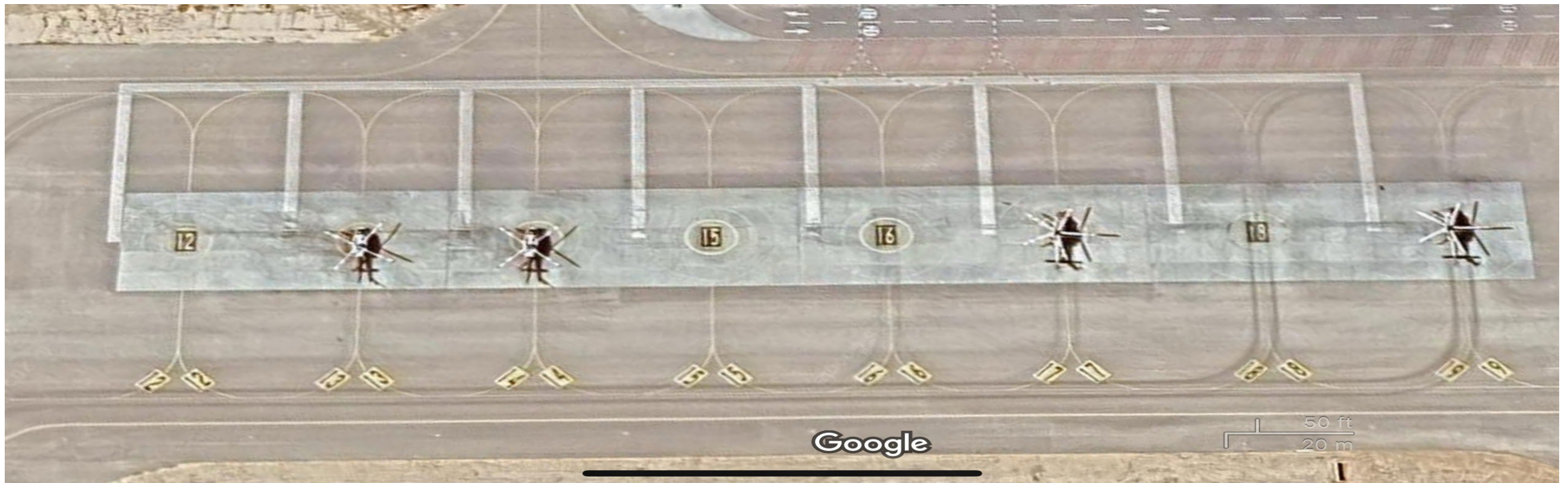
4 -Aerodrome served petroleum fixed wing aircraft (Land strip)

- BADR-3 Airport
- Zeit Bay (Gebel El Zeit) Airport
- Abu Redis Airport
- KHALIG ELZEIT Airport
- Ras Shukeir Airport
- Ras Gharib Airport (Closed)
- Abu El Ghradieq Airport (Closed)



4-1- Helicopter stands (part of airport) stands (part of airport)

- Bog elarb airport
- Port said airport



4. heliport Certification Process

1. OFFSHORE , and ONSHORE Heliports

- A. Design & Construction Compliance
- B. Operational Approval & Certification
- C. Periodic Recertification & Maintenance

A. Design & Construction Compliance

Before construction a heliport, the design must be reviewed and accept from ECAA to meet regulations:

- **Size & Load Capacity:** The heliport should support the **Maximum Takeoff Weight (MTOW)** of helicopters using it.
- **Markings & Lighting:** Proper MARKING and **lights, and wind indicators.**

A. Design & Construction Compliance Cont.

- **Fire fighting System & Safety Equipment:** Fire extinguishers,, rescue equipment, and emergency response plans.
- **Non-Slip Surface:** Special coatings to prevent skidding in wet conditions.
- **Obstacle Clearance:** Ensure safe approach/departure paths without obstructions.

B. Operational Approval & Certification

- **Regulatory Authority Inspection:** ECAA, appointed Heliport Certification Committee (HCC) to make an audit for the helideck/heliport for compliance.
- **Documentation & Approval:** If all criteria are met, a **Certificate** is issue

C. Periodic Recertification & Maintenance

- **Annual inspections** to maintain certification.
- **Re-certification is needed** after modifications or structural

Note:

For **ship board heliport** coming from outside Egypt to perform a specific job, certification procedures may vary according to the regulations of the respective country's aviation authority.

D-Certification / renewal certification process

1- application

2- assign Helideck Certification Committee (HCC)

- 1- Aerodrome Safety And Standards
- 2- Air Navigation
- 3- Air Transport

3-inspection process:

A-Section one: Administrative Inspection

B-Section Two: On-Site Inspection

3-inspection process cont.: A-Section One

Administrative Inspection

THE HELIPORT OPERATION MANUAL

A. Document Review

B. Personnel & Training Records Audit

C. Compliance Assessment

D. Reporting & Documentation

A. Document Review

- Checking permits, licenses, and certifications for validity.
- Reviewing operational policies, procedures, and manuals.

B. Personnel training record

- Verifying employee qualifications, certifications, and licenses.
- Reviewing staff training logs to confirm ongoing education and compliance with safety standards.

C. Compliance Assessment

- Ensuring the organization follows industry-specific regulations.
- Assessing administrative processes for efficiency and effectiveness.

D. Reporting & Documentation

- Preparing an inspection report detailing findings, compliance status, and areas needing improvement.
- Issuing recommendations or corrective actions, Operator will provide Risk Assessment if non-compliance is detected.
- Following up on previously identified issues to confirm resolution.

THE HELIPORT OPERATION MANUAL

1. Amendments page

2. the Heliport general information and drawing

- Helicopter landing area template.

-Heliport Dimensions, Marking,...etc

3. Previous Licenses / certificate

4. Air Navigation Facilities

5- Operations Procedures

6- Rescue and Fire-Fighting

7- Heliport emergency plan

8- Obstacles

9- Detailed Maintenance Programs of All Different Operations Components and Elements on the Heliport

-Civil, Mechanical and Electrical Works

10 - Training Programs, Tests and Training Certificates of Individuals

11- Personnel Responsibilities

3-inspection process cont.: Section Two

On-Site heliport Inspection

- A. Structural & Design Compliance**
- B. Safety Equipment & Emergency Preparedness**
- C. Lighting & Markings**
- D. Wind & Weather Monitoring Systems**
- E. Operational & Safety Procedures Compliance**

A. Structural & Design Compliance


 **Dimensions & Load Capacity**


 **Surface Condition**


 **Drainage System.**

 **Obstacle-Free Zone (OFZ)**

B. Safety Equipment & Emergency Preparedness


 **Firefighting Equipment:** Ensure fire extinguishers, foam monitors in (helidecks), and dry powder systems are in working condition.

 **Rescue & Emergency Gear:** Check the availability of first aid boxes, and emergency breathing apparatus.

 **Fueling & Refueling System:** Ensure fueling procedures comply with safety standards (if refueling is conducted on-site).


C. Lighting & Markings

 **Heliport Perimeter Lights:** Confirm all lights function correctly,

 **Markings :** Check for clear and compliant Heliport markings, such as:

- **“H” marking** (correct size and contrast)
- **Weight limits and maximum D-value**
- **etc**

D. Wind & Weather Monitoring Systems


 **Windsock Condition:** Ensure the windsock is in good condition, properly illuminated, and positioned for clear visibility.

E. Operational & Safety Procedures Compliance


 **Heliport Crew Training Records:** Verify that personnel handling Heliport operations (HLO, HDA,..) are certified and trained.


 **Helicopter Approach & Departure Procedures:** Assess compliance with aviation authority-approved flight paths.

 **Communication & Radio Equipment:** Test radio communications between the helideck, pilots, and control stations.

 **Safety Drills & Emergency Evacuation Plans:** Ensure periodic safety drills are documented and up to date.

Final Steps of On-Site Inspection

 **Issue Inspection Report:** The inspector provides a compliance report detailing findings, safety concerns, and any required corrective actions.

 **Corrective Action Plan (CAP):** If deficiencies are found, the helideck operator must implement corrective measures within a set timeframe.

 **Final Certification Approval:** Once all requirements are met, the helideck receives certification for safe operations.

6- Certification Process (aerodrome served Fixed Wing aircraft)



1. Regulatory Compliance & Application Process



Regulatory Standards



Application Submission



Regulatory Standards:

- **ICAO Annex 14 – Aerodromes** (Global Standards), and all related Documents
- **ECAR 139** (EGYPT), and all related EACs



Application Submission:

- The **aerodrome operator** submits an application to the **Civil Aviation Authority (CAA)**.
- The application must include:
 - Aerodrome Manual** (operational procedures, emergency plans, safety management system).
 - Aerodrome Layout Plan** (runway, taxiways, aprons, lighting, safety zones).
 - Safety Risk Assessment** (compliance with ICAO safety requirements).

2. Infrastructure & Operational Requirements

- ✓ Runway & Taxiway Design:
- ✓ Fire & Rescue Services (ARFF):
- ✓ Security & Safety Management System (SMS):



Runway & Taxiway Design:

- Compliance with ECAR 139
- Proper runway length, width, and surface condition.
- Markings, lighting, and taxiway guidance signs.



Fire & Rescue Services (ARFF):

- Compliance with **ICAO Fire Fighting Categories** based on airport size.
- Availability of firefighting vehicles, personnel, and emergency plans.



Security & Safety Management System (SMS):

- Implementation of **Aerodrome Safety Management System (SMS)**.
- Risk mitigation procedures for ground handling, fueling, and aircraft operations.

3. On-Site Inspection & Testing

- ✓ Administrative Inspection:
- ✓ On-Site Inspection:
- ✓ Approval & Certification Issuance:



Administrative Inspection:

- Review of **safety documentation, maintenance logs, and operational manuals.**



On-Site Inspection:

- Physical verification of runways, taxiways, signage, and lighting.
- Inspection of rescue, firefighting, and emergency response readiness.
- Check of security measures, perimeter fencing, and access control.



Approval & Certification Issuance:

- If the aerodrome meets all requirements, the **Civil Aviation Authority (CAA)** issues an **Aerodrome Certificate**.
- Certification validity depends on compliance audits and periodic inspections.

4. Post-Certification Compliance & Renewal

-  Regular Inspections & Audits:
-  Re-Certification:



Regular Inspections & Audits:

- Annual safety audits by the **aviation authority**.
- Continuous monitoring of safety procedures, security measures, and equipment maintenance.



Re-Certification:

- Required if the aerodrome undergoes major modifications or operational changes.

Thanks