



*Aerodrome Safeguarding
&
Hazards Affecting Navigation
safety*

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1-Aerodrome Safeguarding

- .simply is the process of protecting the airspace around an aerodrome to ensure the safety of navigation and protecting the aerodrome from any hazard that may affect the safety of operation
- .ensure that any planned developments both on or off an aerodrome will meet the appropriate safeguarding requirements.
- .ensure that the obstacle limitation surfaces within the vicinity of an aerodrome are always safe from any outer infringe that may affect the safety of operation.

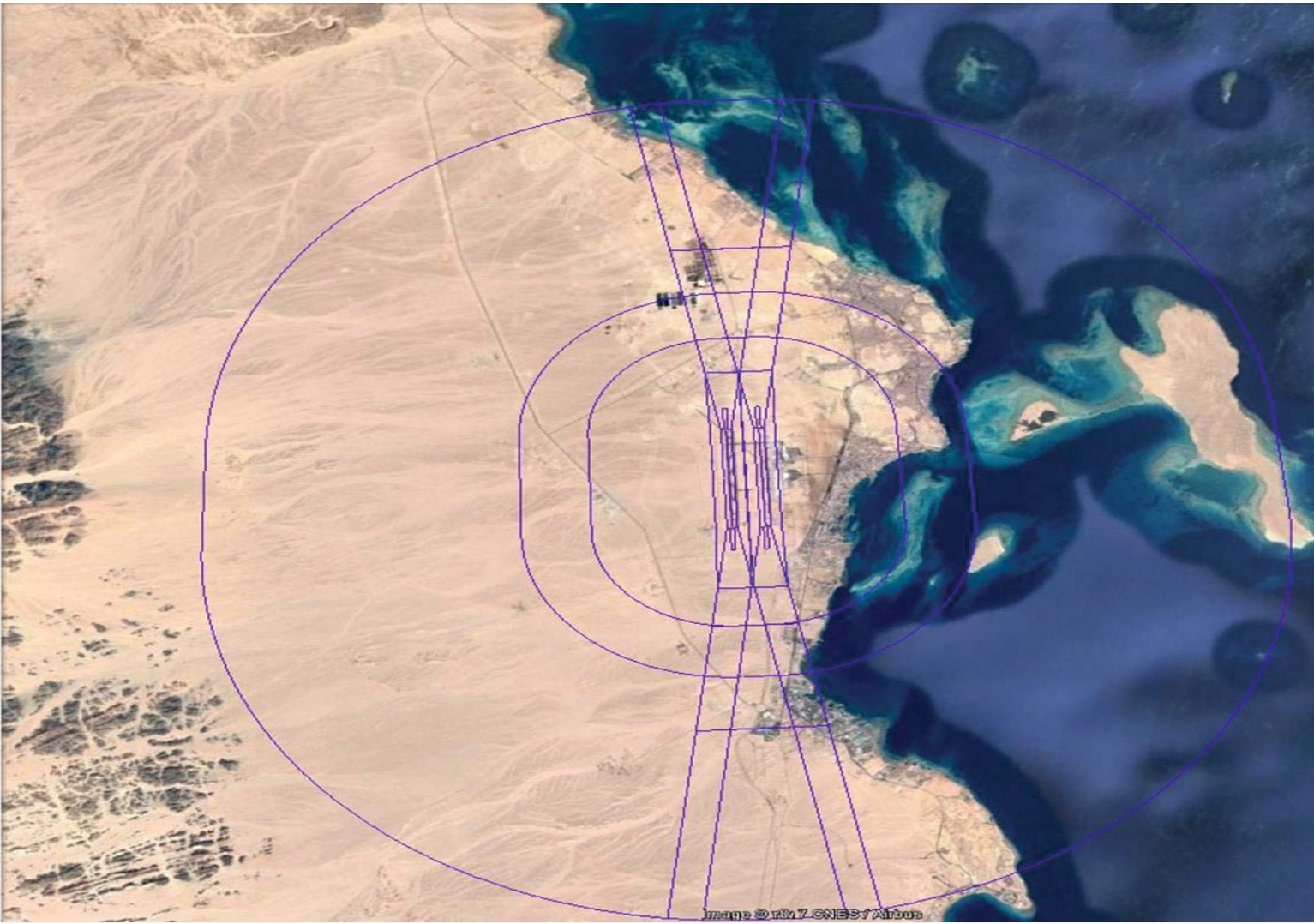
Aerodrome Safeguarding

- .carrying out aeronautical studies in order to mitigate the danger of any hazard that may affect the navigation safety as well as banning any obstacle that will fall within a radius of 5 km around an aerodrome and will infringe or any surface of the OLS.

2-Hurghada International Airport

- ❑ Is an international airport located in the city of Hurghada – Red Sea Governorate
- ❑ ICAO Code : HEGN - IATA Code : Hrg
- ❑ Elevation 109 ft
- ❑ Runways : RWY 16L-34R & RWY 16R-34L
- ❑ Coordinates

27°10'43"N - 33°48'03"E
midpoint of RWY 16L-34R



Hurghada International Airport OL

Hurghada Airport Obstacles Monitor Structure

ECAA (Technical Support)
Egyptian Civil Aviation Authority
Central Airport
Safety&Measurement Dep.

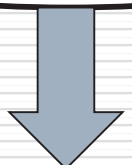


EAC
(Administration&Technical Support)
Egyptian Airports Company
Civil & Architectural Engineering
Sector
Obstacles assessment Dep.

Airport manager



Engineering Dept



Obstacles
Monitoring Dept

Laws & Regulations

All Obstacles Monitoring & Observation work has
Achieved According To the Following Regulations

International ICAO Regulations
ANNEX 14 – CHAPTER 4
Manual Doc. 9137 – part 6

Egyptian ECAAR – 139 - part G

Law no. 28 of 1981 and its executive of
The Ministerial Decree 391\1998
The Ministerial Decree 392\2006

Obstacle Monitor Tasks Inside Outside the Airport

.Monitoring and observing any obstacle within the range of OLS.

.Periodically monitoring any new building, mobile network towers and construction projects using onsite tall cranes, and through the ECAA an aeronautical study must be done and give a permission for such cases.

Obstacle Monitor Tasks Inside Outside the Airport

.Regular daylight check and night inspection & observation must be held on all airport facilities and buildings that has obstruction lights and for ATC antennas inside the airport.

.regular follow up for the buildings, mobile network towers and cranes that have already took it's permission from ECCA.

Obstacle Work Procedure In Hurghada International Airport

- The city of hurghada is divided to 2 districts according to the division of the local city council.
- We made our obstacle observation monthly work plan according to the division as shown in the coming up slide to ensure the coverage of all divisions within the OLS range.

لمتابعة اعمال العوائق بالمناطق المشمولة بالارتفاق الجوي لمطار الغردقة الدولي

الاسبوع الرابع			الاسبوع الثالث			الاسبوع الثاني			الاسبوع الاول			مهمات المناطق داخل مدينة الغردقة
الاربعاء	الاثنين	السبت	الاربعاء	الاثنين	السبت	الاربعاء	الاثنين	السبت	الاربعاء	الاثنين	السبت	
									√			الكوثر ش - الانتركونتيننتال بين - النجدة
			√	√	√							الاحياء - الجوهره - امتداد القمر - السلام
						√	√	√				الشمالي - المدارس - امتداد ابو العباس الجبل الشمالي - المركز السياحي
√	√	√										و الامل - عرابيا د - الذهبية ت - الهلال

مرور ليلي علي لمبات العوائق بمناطق الارتفاق الجوي حول المطار (Night Inspection) بصفة دورية يوم الخميس من كل اسبوع .
ب المرور بالتقسيمات القريبة من سطح الاقتراب و التصاريح الاقل من ٤١ م و كذلك التقسيمات الصادر لها عدد اكبر من تصاريح سلطة المدني .

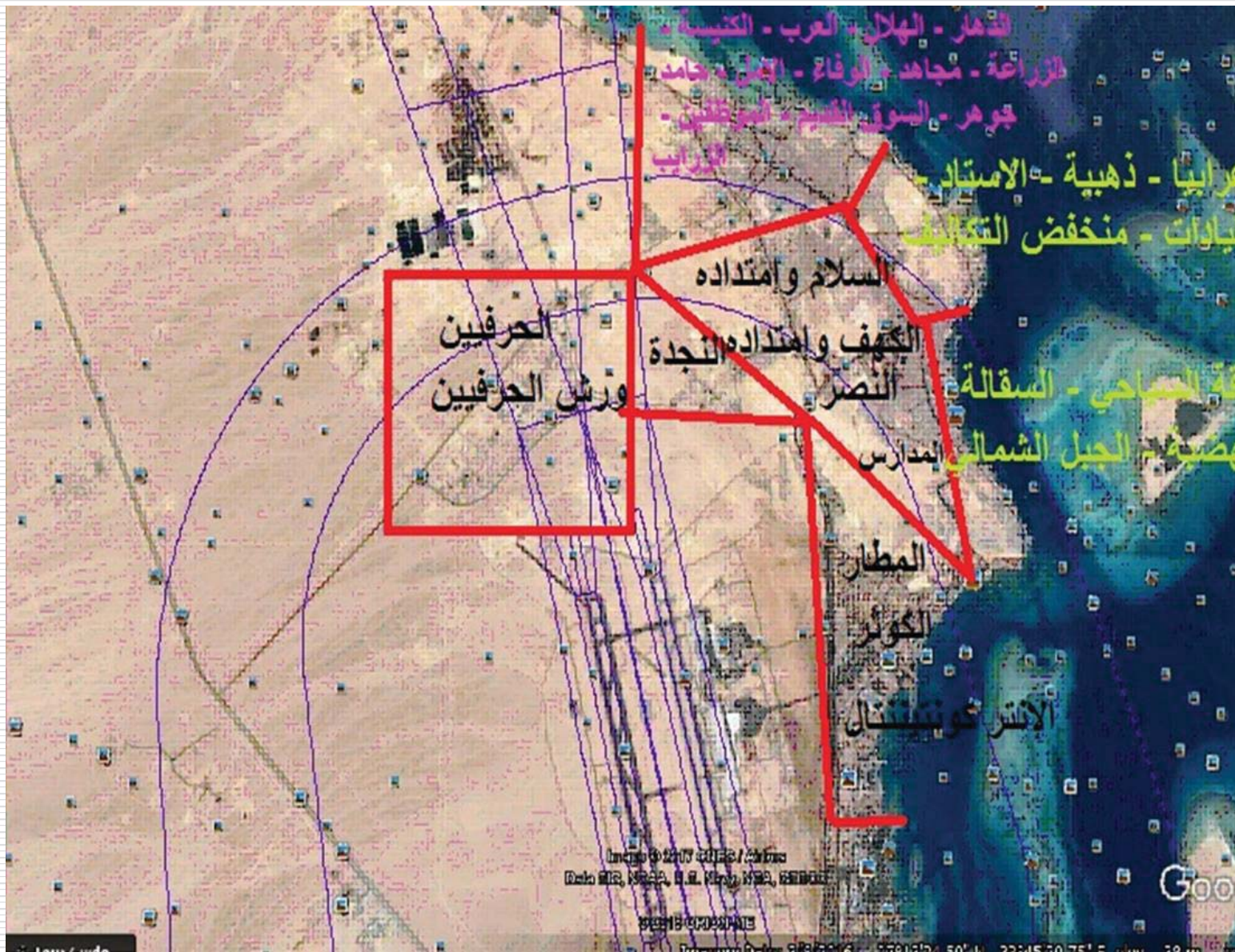
خطة التفتيش طبقا لامكانية توفير سيارة من المطار للمرور مع مسنول العوائق .

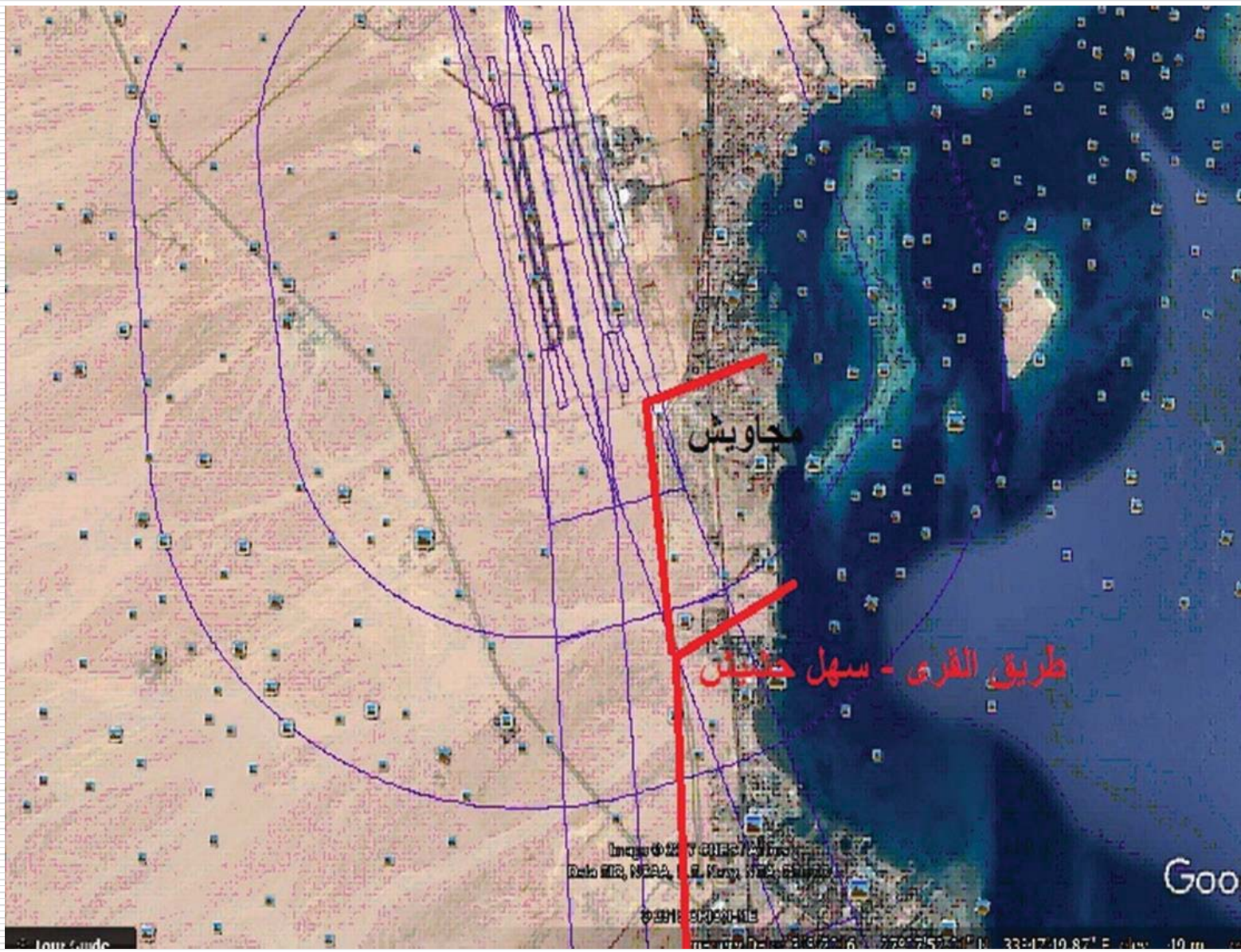
مدير الاداره

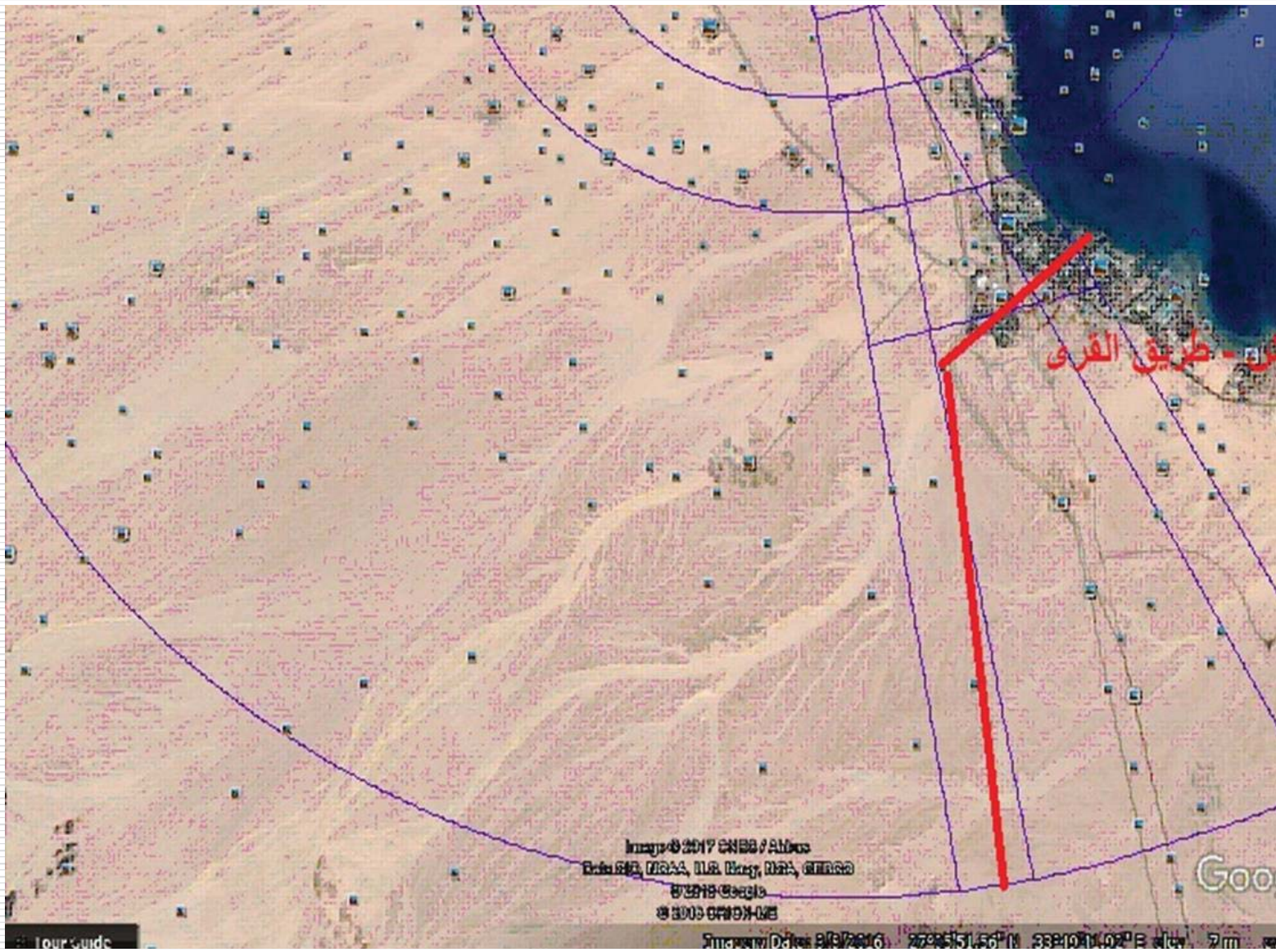
التوقيع /
س. محمود جلال

س / مصطفى محمد
يع /
Waqib









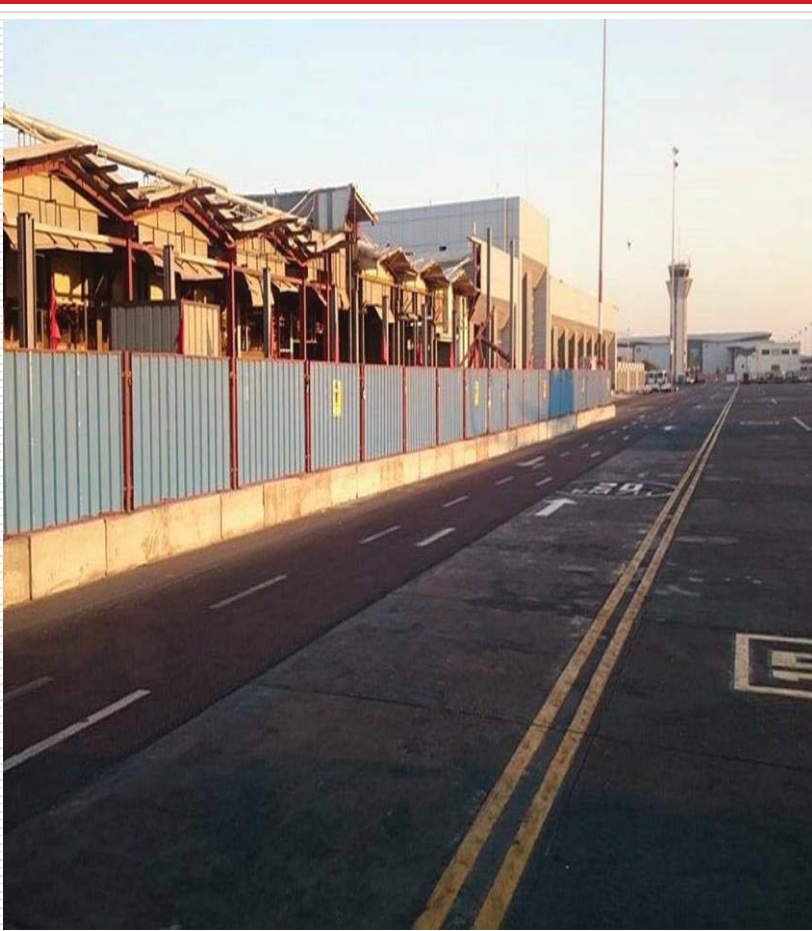
Hazards Affecting Navigation Safety

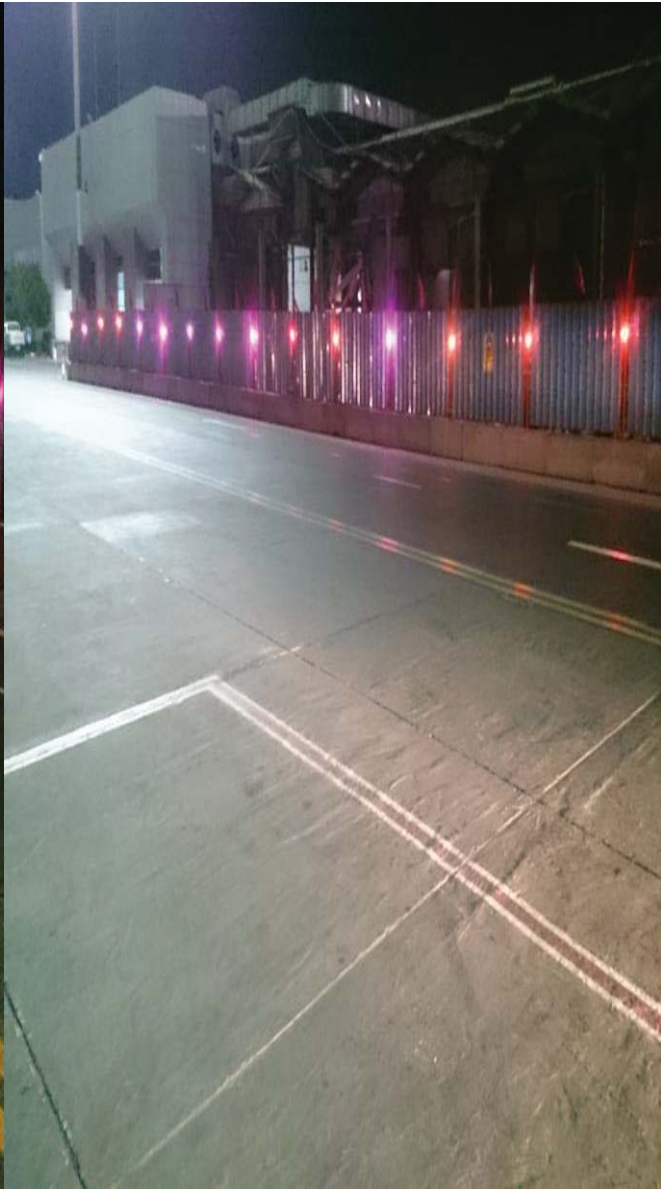
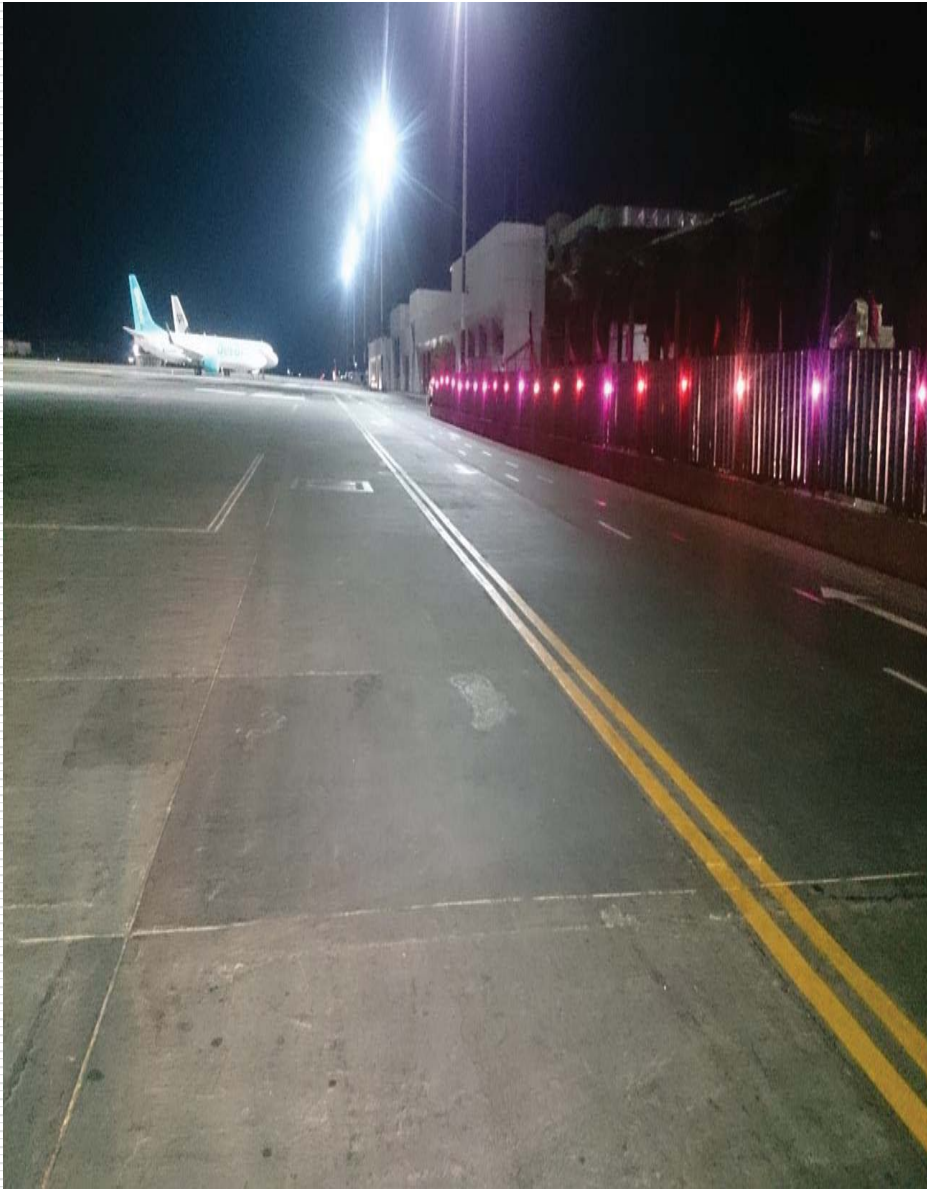
.hazards can take many forms for example:

- 1- Upgrading Works on Airside.
- 2- Using Tall Cranes.
- 3- Lazer & Fireworks Attack.
- 4- Natural Obstacles.

.Among the following slides we will be able to see some actual cases of hazards and how to deal with.

1- Upgrading Works on Airside





Separation fences during upgrading works





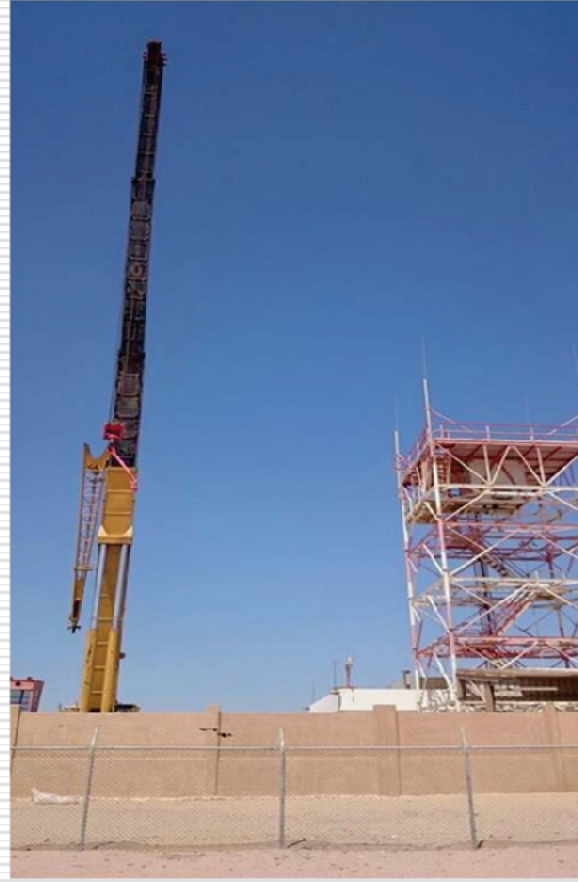




2- Using cranes in construction sites inside the airport



Using crane for upgrding wor inside th airport



Using crane for implementation of network antenna outside the airport



3- Natural Obstacles Denoting



**Thank you
For your time**
