#### The airport operator's perspective on runway Excursion hazards



### Our presentation will focus on:

Runway excursion mitigation options from airport

operator's perspective:

- > Conditions of the runway.
- > Provision of guidance facilities.
- > Provision of obstacle free overrun areas.
- > Regulation as a critical defence

#### **Conditions of the runway**

- Scheduled runway surface inspection.
- Periodical measuring for Runway friction levels (rubber deposits).
- Contaminated runway (A runway completely or partly covered with standing water more than3mm-).
- Runway construction (surface drainage).
- Drawbacks with surface condition reports where it is not always easy to correctly asses the runway condition by the ground staff.





#### **Conditions of the runway**

- The conditions on the runway may have changed considerably between the time of the observation of the runway and the actual operation.
- A common semantic is necessary to report runway conditions across all aviation domains;
- Permanent Met office and updated Metar & TAF used to be sent to operations sector and upon that RFF occupy front points if needed.
- Reviewing Standard Operating Procedures (SOP)

### Provision of guidance facilities

Clarity of runway markings. signs and lights (PAPI, Runway end lights,..., etc).



- Modified "effective operational runway length" data that is not accurately published.
- ❖Intersection departures distance information.
- Adding technology such as Vehicle Transponders ......etc
- Monitoring and Recording all Landing & Take off by COC.

### Daily Runway inspection form:

سُركه ميناء القاهرة الجوى قطاع العمليات إدارة الإرشاد

الموافق:

المرور اليومي على المدرج 23C – 05C

\* المرور الخامس: الساعة 21:00 PM المرور الأول: الساعة 02:00 AM أنوار اللافتات الإرشاديا أنوار منطقة أنوار ال توقيع نوقيع أنوار النهاية أنوار الـ PAPI أنوار الإقتراب منطقة الحواف Stop Bar محور التوقف الجانبية المدرج النوبة بالمرور 05C 05C 05C 23C 05C 23C 05C 23C 05C 23C 05C 23C غر منو لدد 120 غو متو 120 120 24 5 120 120 2 54 54 54 4 00 00 المرور الرابع: مرور الغروب 📬 المرور الثاني: مرور الشروق

	ئوقىع رئيس النوبة	نُوهِيع القائم بالمرور	کم لابتح	مناطق السلامة	ئشققات نقاط أو مناطق غائرة	FOD (تجمع وتراكم للمطاط - الأجسام الغريبة - نباتات نامية -برك مياه - طام روكام - الرمال السائلة - مواد منسميه)	التوقيت

المرور الثالث: المرور على العلامات الملاحية على المدرج الساعة 10:00 AM

	توقيع القائم	التوقف	علامة	ئصويب	نقطة الا	ما <i>ث</i> مس	علاه الثلا	خطوط	خط المحور	مدرج	رقُم ال	ئب	العذ	مات المدرج	علاه ما <b>فَب</b> ِل	التوقيت
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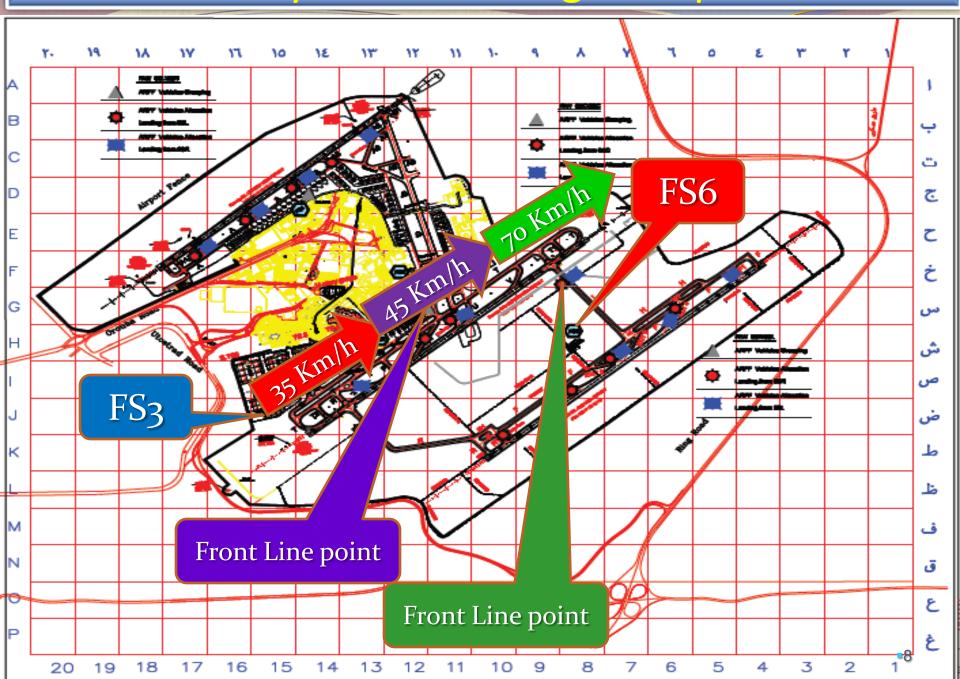
# Rescue and Fire Fighting (RFF) response

- Grid map for standby and low visibility.
- Continuous inspection for appropriate response vehicles.
- Rescue and Fire Fighting (RFF) ability to locate and access excursion.



- Front line positions for RFF vehicles in case of Low visibility (to intervene on more shorter times).
- Continuous training for effective emergency response personnel.
- New access roads were established specifically for RFF Vehicles.

## Low Visibility Hazards mitigation procedures



## **Working in Groups Spirit**

Close coordination between all the concerned stakeholders especially before any work task or any change in the system (expansion and development).



- Training and briefing personal belonging to the contractors (and subcontractors) working in the airside (pre/post briefing for lesson learnt).
- Permanent Committee for updating the AIP.
- Standardizing all the procedures —especially related to runways e.g. procedures for issuing Notams.
- Reviewing the maintenance program to check signage, lights before starting WIP.

# Regulation as a critical defence

- Great care for Locating & Managing the equipment if there are WIP especially in the runway stripe.
- Provide signs for flight crews to visually determine runway distance remaining.
- Ensure the airfield and RESA conforms ICAO specifications.
- > Define standard criteria for not operating runway.
- > Airport environmental interactions.



# **Sharing Experience**

- **Establishing Runway Excursion database:** 
  - utilized from NTSB & FAA and UK
    CAA-Safety Accident and Incidents
    Database.



- Collect Related information internationally
  - Data analysis of runway excursion.
  - Share industry best-practices to reduce the risk of Runway Excursions
- **❖** Identify high risk areas (with data).
- \* Human Factor communication through meetings, Seminars, Posters,...,etc.

# Thanks for attention **#0 #0** # S » **\* S \*** # B # # C + D F8 D G3 E F9 D G1