

# Aerodrome Certification for Regulators and Operators

Inspection techniques for the  
on-site verification of the  
certification process

**Location:** Panama City, Panama

**Presented by:** John Fotiadis, FAA ACSI

**Date:** 23 October – 27 October, 2017



**Federal Aviation  
Administration**



# Course Objectives

- ☐ Types of Inspections
- ☐ Pre-Inspection
- ☐ Inspection Process
- ☐ Post Inspection

# Airport Certification

## □ Part 139

- Federal airport certification regulation that establishes certification requirements for airports serving scheduled and un-scheduled air carrier aircraft more than 9 seats

Note: In the United States an air carrier greater than 9 seats is required to use certificated airports. (Unless an emergency is declared)



# Airport Classes

## ☐ Class I

- ☐ Scheduled Large Air Carrier service
- ☐ Unscheduled Large Air Carrier service

## ☐ Class II

- ☐ Scheduled Small Air Carrier service
- ☐ Unscheduled Large Air Carrier service

## ☐ Class III

- ☐ Scheduled Small Air Carrier service

## ☐ Class IV

- ☐ Unscheduled Large Air Carrier service

# Types of Inspections

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**Self-inspection program involves conducting 3 different types of inspections.**

- ☐ **Initial Inspections**
- ☐ **Periodic inspections**
- ☐ **Surveillance Inspection**



# Types of Inspections

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## Initial Inspection

- ☐ Required for any airport not currently certificated under Part 139
- ☐ First inspection conducted before FAA issues Airport Operating Certificate (AOC)

## Periodic Inspection

- ☐ Conducted on periodic schedule; normally annually
- ☐ Ensures airport is operating safely according to Part 139 and Airport Certification Manual (ACM) requirements

# Types of Inspections

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## Surveillance Inspection

- ☐ **Announced or unannounced**
- ☐ **Can be directed towards a specific requirement**
  - Not all inclusive
- ☐ **Reasons for conducting**
  - Follow up on a periodic Inspection
  - Monitoring airfield safety
  - Validating continued compliance with ACM
  - Providing additional safety oversight at larger airports
  - Reviewing winter operations
  - Confirming ARFF capability/implamentation

# Pre-Inspection

## Schedule Inspection

- ❑ Every 9-15 months for Class I, II, III airports w/scheduled air carrier service (more than 9 passenger seats)
- ❑ Every 12-18 months for Class IV w/unscheduled air carrier service (more than 30 passenger seats)





# Pre-Inspection

## ☐ Coordinate with airport

- Confirmation Letter

## ☐ Review ACM

- To include AEP, Snow and Ice Control Plan, Wildlife Hazardous Management Plan, and LVO/SMGCS

## ☐ Past 3 years of violations

## ☐ Airport Facility Directory

## ☐ Obstruction chart



U.S. Department of Transportation  
Federal Aviation Administration

Central Region  
Iowa, Kansas, Missouri, Nebraska

Federal Building  
901 Locust  
Kansas City, Missouri 64106

August 4, 2017

Ms. Rachelle Powell, C.M.  
Director of Aviation  
Garden City Regional Airport  
2225 South Air Service Rd, Suite 112  
Garden City, KS 67846

Dear Ms. Powell:

Garden City Regional Airport  
Garden City, Kansas  
Annual Inspection Confirmation

The annual certification inspection is scheduled to begin on September 5, 2017. Please have the following information and records available during the inspection:



# Inspection Process

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## Phases of Inspection

1. In-Briefing
2. Administrative Inspection
3. Movement and Safety Area Inspection
4. ARFF Inspection
5. Fuel Inspection
6. Wildlife Hazard Management Inspection
7. Night Inspection
8. Air Traffic Control Tower Interview
9. Out-Briefing



# Inspection Process

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## In-briefing

### ❑ Discuss

- Inspection agenda
- Problem areas
- Previous inspection results
- Runway incursions/excursions
- Construction activities

### ❑ Coordinate w/ ATC

- Movement area driving concerns
- ARFF response drill



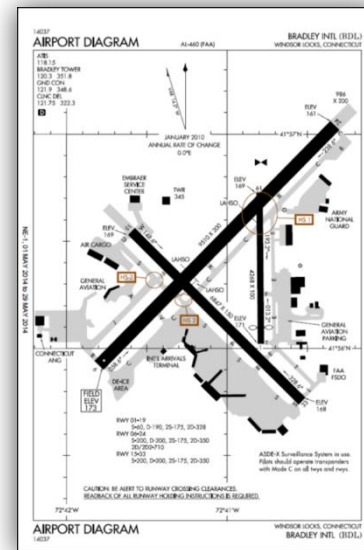
# Inspection Process

## Administrative Inspection

(typically prior to airport arrival)

### ❑ Conduct review of

- Airport Certification Manual (ACM)
- Wildlife Hazard Management Plan
- Airport Emergency Plan
- 5010 Airport Master Record
- Airport Diagram
- Sign & Marking Plan
- NOTAMs



# Inspection Process

## Reviewing records required to be maintained by airport staff

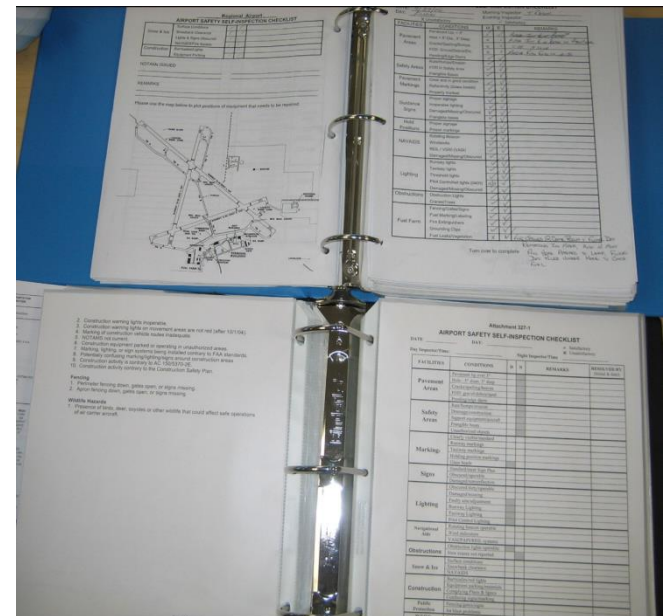
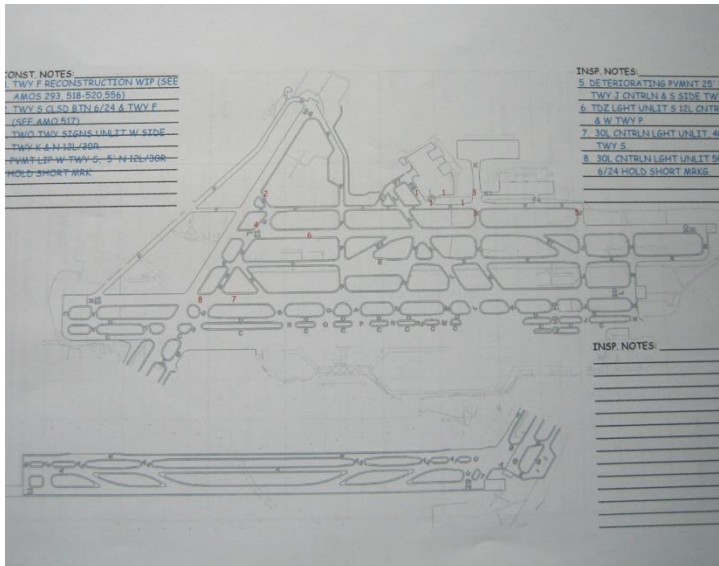
- ❑ **Airport Personnel Training Curriculum & Records**
  - ❑ Every 12 consecutive calendar months
- ❑ **Ground Vehicle Operator & Pedestrian Training Curriculum and Training Records**



# Inspection Process

## Reviewing the self inspection process

- ❑ Self Inspection Records & Work Orders
- ❑ Field Condition Records
- ❑ NOTAMs





# Inspection Process

- ❑ Review the Aerodrome Manual, the AEP, and WHMP with airport staff
- ❑ Review Wildlife Log and Strike Reports
- ❑ Review Aeronautical Information for the airport
- ❑ Review the Airport Sign & Marking Plan

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		AIRPORT MASTER RECORD		PRINT DATE: 05/22/2009 AFD EFF: 05/07/2009 Form Approved OMB 2120-0015	
1 ASSOC CITY: KANSAS CITY		4 STATE: MO		LOC ID: MOI	
2 AIRPORT NAME: KANSAS CITY INTL		5 COUNTY: PLATTE MO		FAA SITE NR: 11816/6A	
3 CBO TO AIRPORT (NM): 15 NW		6 REGION/ADO: ACENONE		7 SECT AERO CHT: KANSAS CITY	
<b>GENERAL</b>		<b>SERVICES</b>		<b>BASED AIRCRAFT</b>	
10 OWNERSHIP: PJ		70 FUEL: 100LL A		90 SINGLE ENG: 0	
11 OWNER: CITY OF KANSAS CITY		71 AIRFRAME RPRS: NONE		91 MULTI ENG: 0	
12 ADDRESS: 801 BRASLIA; PO BOX 20047		72 PWR PLANT RPRS: NONE		92 JET: 0	
KANSAS CITY, MO 64141		73 BOTTLE OXYGEN: NONE		TOTAL: 0	
13 PHONE NR: 816-243-3100		74 BULK OXYGEN: NONE		93 HELICOPTERS: 0	
14 MANAGER: MR. DAVID W. BOWEN		75 TSTNT STORAGE: TIE		94 GLIDERS: 0	
15 ADDRESS: P.O. BOX 20047		76 OTHER SERVICES: CARGO		95 MILITARY: 0	
KANSAS CITY, MO 64195				96 ULTRA-LIGHT: 0	
16 PHONE NR: 816-243-5248					
17 ATTENDANCE SCHEDULE: ALL ALL ALL					
		<b>FACILITIES</b>		<b>OPERATIONS</b>	
18 AIRPORT USE: PUBLIC		80 ARPT BCH: C3		100 AIR CARRIER: 132,202	
19 ARPT LAT: 39-17-51.3700N ESTIMATED		81 ARPT LOT SKED: DUSK-DAWN		102 AIR TAXI: 53,942	
20 ARPT LONG: 094-42-50.0800W		82 UNICOM: 122.650		103 G A LOCAL: 9	
21 ARPT ELEV: 1028 SURVEYED		83 WIND INDICATOR: YES-L		104 G A ITRNRT: 7,687	
22 ACREAGE: 10200		84 SEGMENTED CIRCLE: NONE		105 MILITARY: 830	
23 RIGHT TRAFFIC: 18R, 27		85 CONTROL TWR: YES		TOTAL: 194,969	
24 NON-COMM LANDING: NO		86 FSS: COLUMBIA		OPERATIONS FOR 12 MONTHS ENDING: 12/31/2007	
25 NPAS/FE AGREEMENTS-NOY		87 FSS ON ARPT: NO			
26 FAR 139 INDEX: I C 5 05/1973		88 FSS PHONE NR: 1-800-WX-BRIEF			
		89 TOLL FREE NR:			
<b>RUNWAY DATA</b>					
30 RUNWAY IDENT: 01L/19R		01R/19L		09/27	
31 LENGTH: 10,801		9,500		9,500	
32 WIDTH: 150		150		150	
33 SURF TYPE-COND: CONC-G		CONC-G		ASPH-G	
34 SURF TREATMENT: GRVD		GRVD		GRVD	
35 GROSS WT: SW		75.0		75.0	
36 (N THSDS) DW		204.0		125.0	
37 DTW		400.0		180.0	
38 DOTW		450.0		200.0	

AIRPORT CERTIFICATION MANUAL  
KANSAS CITY INTERNATIONAL AIRPORT  
Page 321.1

SECTION 321 - HANDLING AND STORING HAZARDOUS SUBSTANCES AND MATERIALS

Aviation Department employees do not act as handling agents for any substance or material regulated by 49 CFR Part 175. Only those substances and materials used in normal daily airport operations and maintenance are handled by Aviation Department employees.

**A. FUELING AGENTS**

1. Fueling agents at KCI Airport  
a. Allied Aviation  
b. Executive Beechcraft

**B. FUELING FACILITIES-EQUIPMENT**

1. Bulk Fuel Storage Tank Farms  
a. Allied Aviation  
• 1,440,000 gallons storage capacity of jet-A fuel  
• 15,000 gallons storage capacity of automotive fuel  
b. Executive Beechcraft  
• 100,000 gallons storage capacity of jet-A fuel  
• 20,000 gallons storage capacity of 100LL Avgas

2. Tank Refueling Trucks  
a. Allied Aviation  
b. Executive Beechcraft

3. Refueling Hydrant Trucks  
a. Allied Aviation

4. Refueling Hydrant Carts  
a. Allied Aviation

**C. AIRPORT FIRE SAFETY FUEL HANDLING STANDARDS**

The Airport complies with NFPA 407 and NFPA 30, which is the local fire code. The City of Kansas City, Missouri Fire Marshal's Office has fire safety jurisdiction over KCI Airport's fuel handling standards. These NFPA standards have been adopted by the Airport's fuel handling standards.

FAA Approved  
Date: MAY 22 2007

# Inspection Process

## Review AEP Records

- ☐ Airport Emergency Plan Training records
- ☐ Documentation of AEP annual review
- ☐ Documentation of Full-scale AEP Exercise





# Inspection Process

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## Movement & Safety Area Inspection

### ☐ Runways

- ☐ Safety Areas
- ☐ Obstructions

### ☐ Taxiways

- ☐ Safety Areas
- ☐ Obstructions

### ☐ Pavement

- ☐ Signs
- ☐ Lighting
- ☐ Markings
- ☐ Pavement Conditions

### ☐ Ground Vehicle Operations

- ☐ Vehicles are properly marked
- ☐ Proper phraseology

### ☐ Wildlife

- ☐ Presence of wildlife
- ☐ Harassment activities taken place

### ☐ Approaches/Departures

- ☐ Obstructions

### ☐ Traffic and Wind Indicators

### ☐ Construction Activates

# Inspection Process

## Aircraft Rescue Firefighting (ARFF) Inspection

### ☐ Training Records

- ☐ 11 subject areas
- ☐ Every 12 consecutive calendar months

### ☐ Live Burn

- ☐ Every 12 consecutive calendar months

### ☐ Response Drill

- ☐ Must be completed to close out inspection

### ☐ Emergency Medical Services Training

### ☐ Foam testing

- ☐ At least annually

### ☐ Integrity of ARFF vehicle



# Inspection Process

## Fueling Inspection

### ☐ Training Records

- ☐ Fuel Supervisor
- ☐ Fuel handling agent training
- ☐ Every 24 consecutive calendar months

### ☐ Fire Extinguisher Training

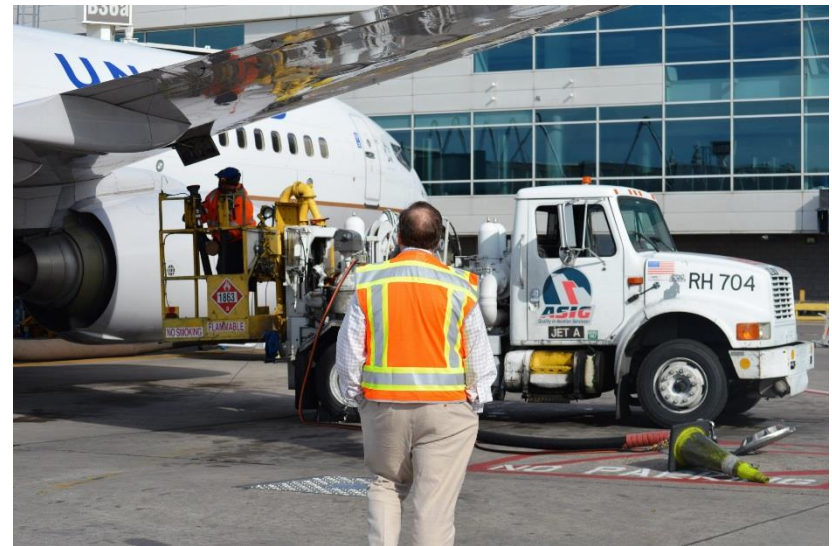
- ☐ Every 12 consecutive calendar months

### ☐ Inspections

- ☐ Fuel Servicing Vehicles
- ☐ Self-Service Systems
- ☐ Fuel Storage Systems

### ☐ Fire Safety Standards

- ☐ NFPA 407, 30, 704
- ☐ Local fire code



# Inspection Process

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## Night Inspection

### ☐ **Pavement** (Runways/Taxiways)

- ☐ Signs
- ☐ Markings (Glass beads)
- ☐ Lighting

### ☐ **Wildlife**

- ☐ Presence of wildlife

### ☐ **Ground Vehicle Operations**

### ☐ **Traffic and Wind Indicators**

- ☐ Lighted

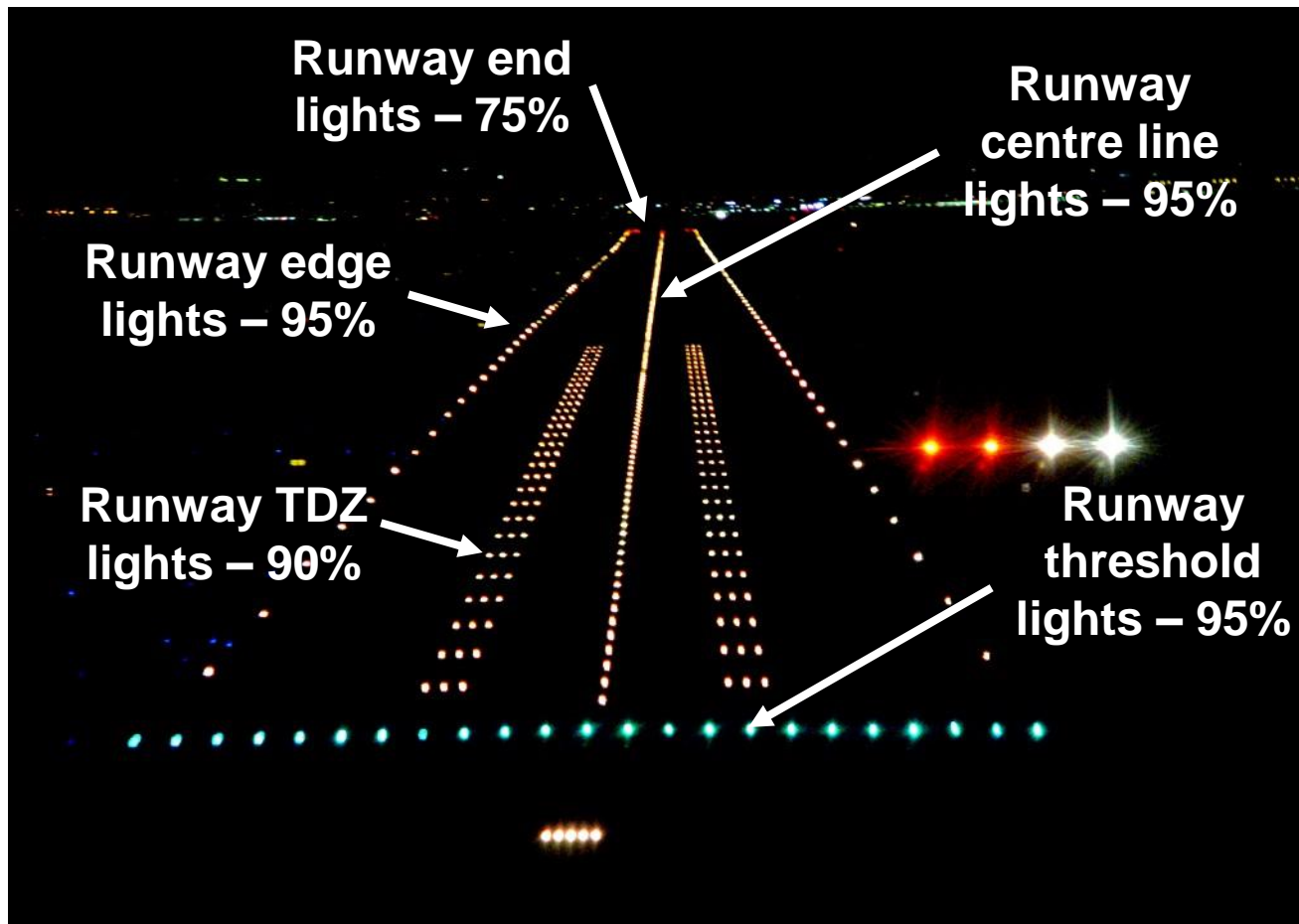
### ☐ **Construction Activates**

- ☐ Lighted Construction areas



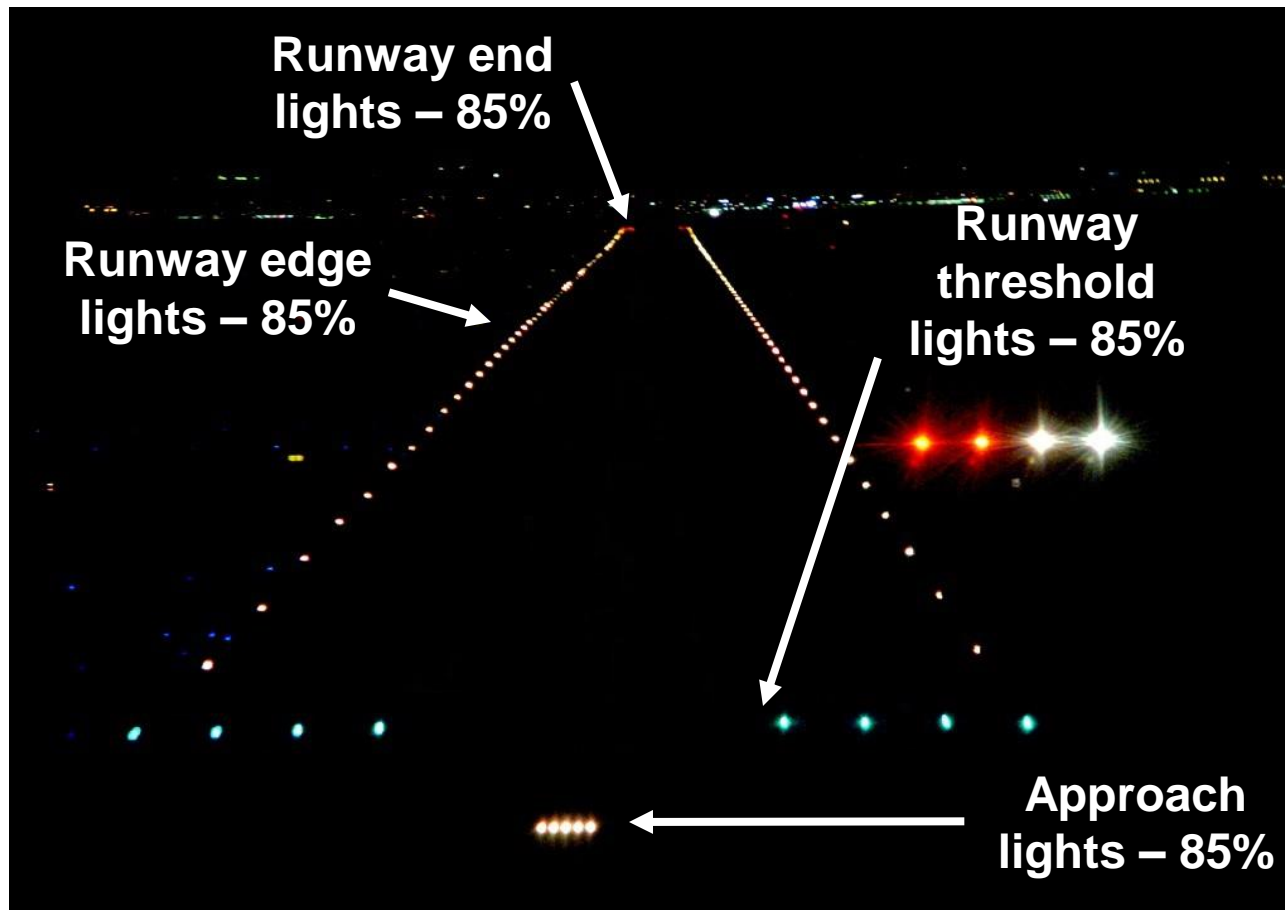
# Inspection Process

## Category II and III runways



# Inspection Process

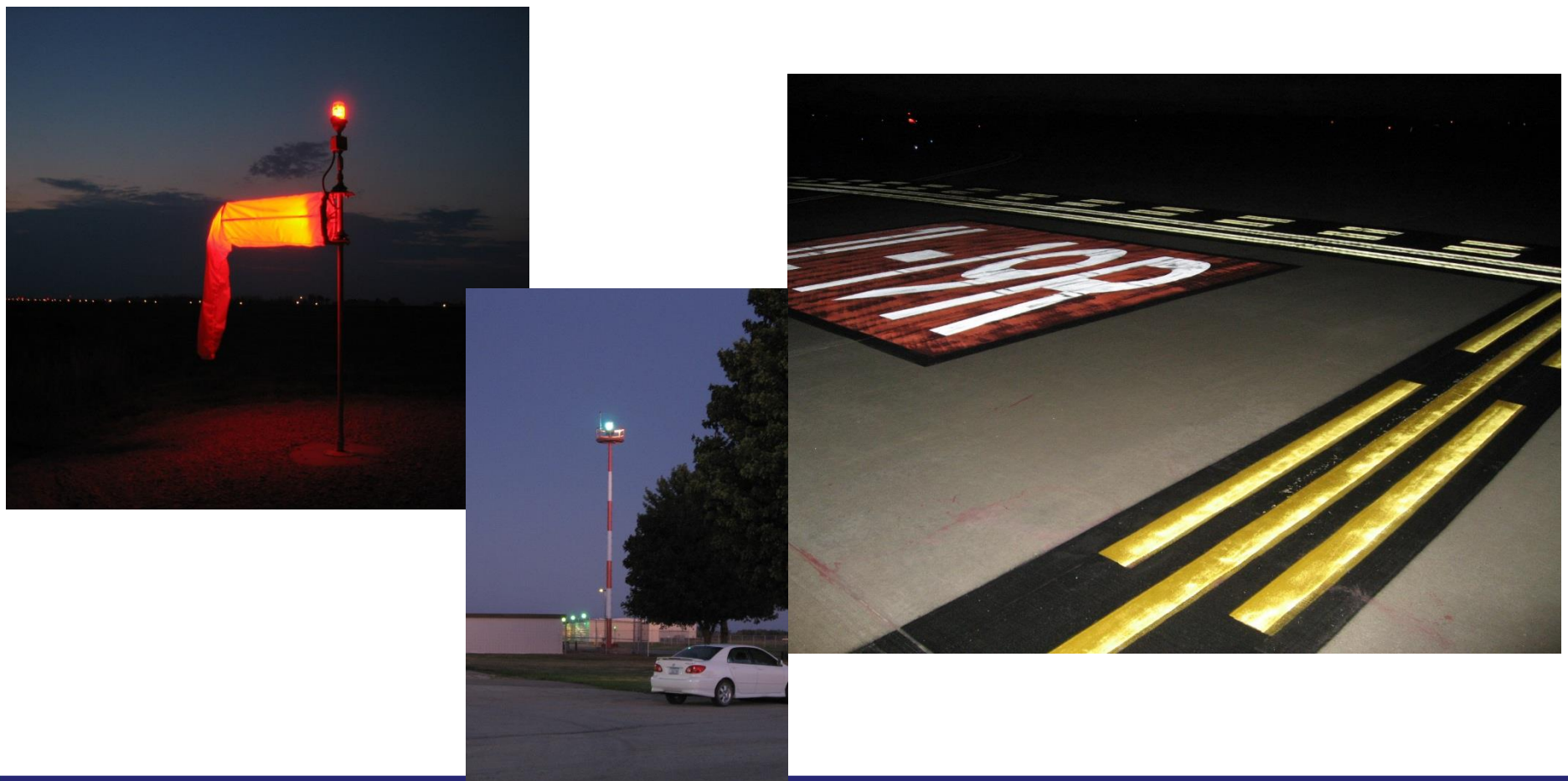
## Category I runways





# Inspection Process

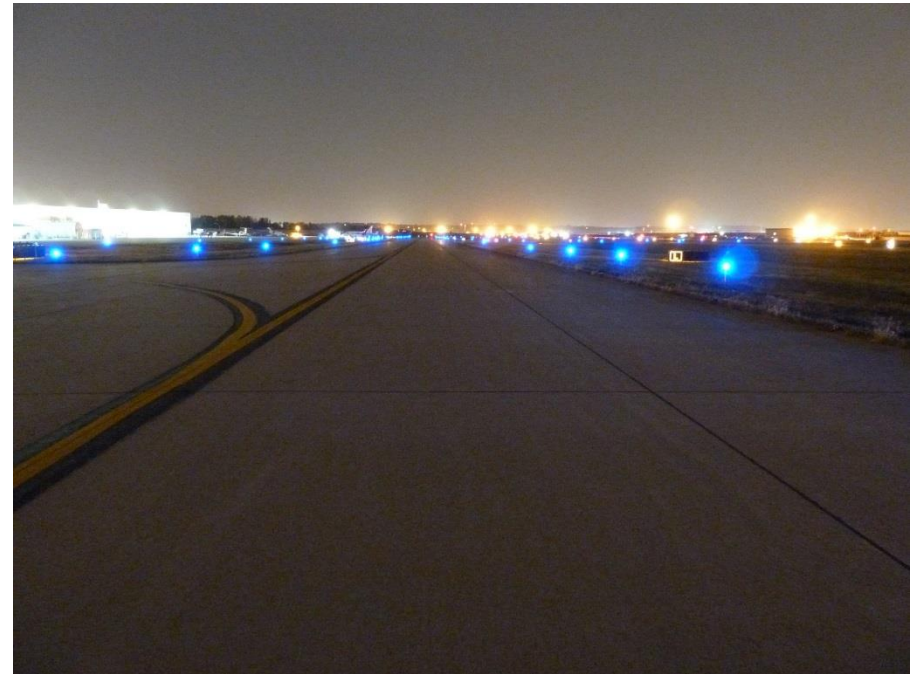
## Conducting Night Inspection



# Inspection Process

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## Conducting Night Inspection





# Post Inspection

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## Gathering your thoughts

- ☐ Review Photos
- ☐ Review Discrepancies
- ☐ Discussion Topics to write down
  - ☐ Updates to Certification Program
  - ☐ Discrepancies
  - ☐ Upcoming Construction



# Post Inspection

## Out-Briefing

- ☐ **Discussions**
  - ☐ Non-Compliance Items
  - ☐ Safety Concerns
- ☐ **Updates to Certification Program**
- ☐ **Compliance Letter**
  - ☐ Agree on dates
  - ☐ Assess airport operator attitude
- ☐ **Closeout Letter**
  - ☐ No compliance issues







*Questions*



# Contact information

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**Federal Aviation Administration**  
**Airport Certification Safety Inspector**  
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**Kansas City, MO 64106**

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**Email: [john.fotiadis@faa.gov](mailto:john.fotiadis@faa.gov)**

