

ICAO/FAA Aviation Workshop

Part 139 Inspection Process & Best Practices

Presented to: Aviation Workshop, Trinidad
and Tobago

By: FAA, Southern Region

Date: October 2017



Federal Aviation
Administration



Overview

- **Types of Inspections**
- **Pre-inspection Actions**
- **Inspector's Toolkit**
- **Phases of the Inspection**
- **Knowledge Test**

Types of the Inspections

There are 3 types of inspections the Federal Aviation Administration conducts for 14 CFR part 139 airports

- **Initial Inspection**
- **Periodic Inspection**
- **Surveillance Inspection**

Types of the Inspections

- **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 the Inspections

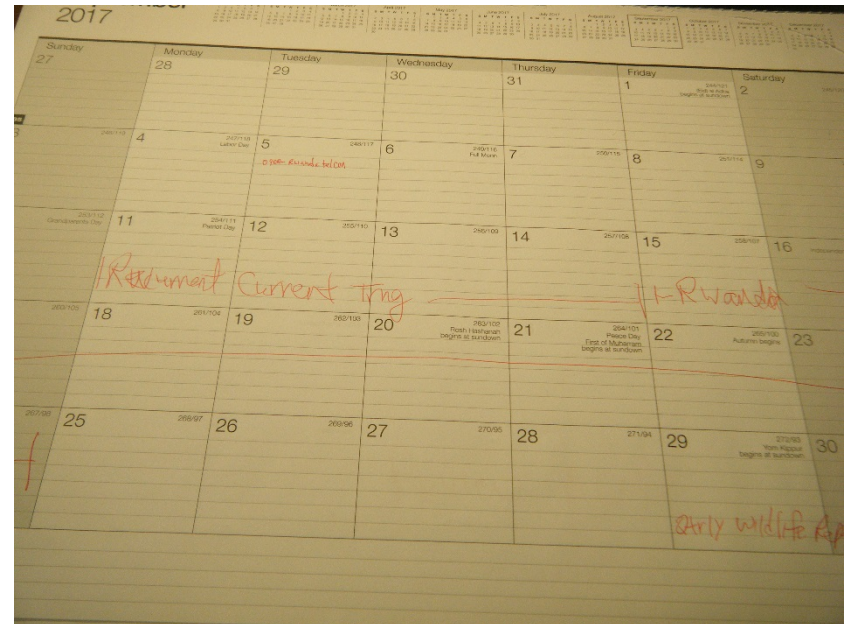
- **Surveillance Inspection**

- Announced or unannounced
- Conducted as follow-up to Periodic inspection non-compliance finding
- Monitor airfield safe operations during construction activities
- Reviewing winter operations; i.e. snow & ice removal
- Implementation of new Aircraft Rescue & Fire Fighting (ARFF) department
- Maybe full inspection or specific objective

Pre- Inspection Actions

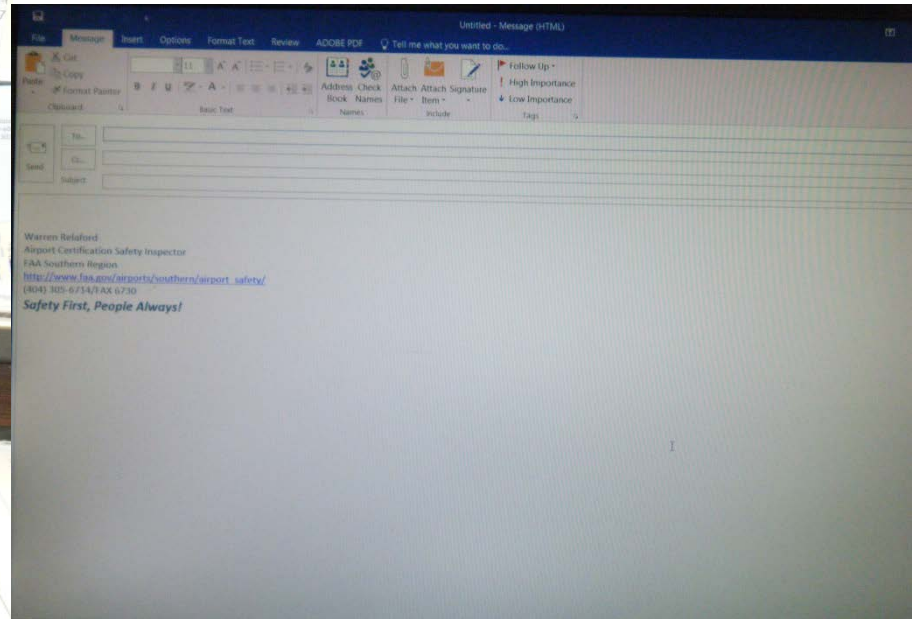
- **Schedule Inspection**

- 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 airports w/ unscheduled air carrier service (more than 30 passenger seats)



Pre- Inspection Actions

- Coordinate with airport & other inspectors to determine suitable date

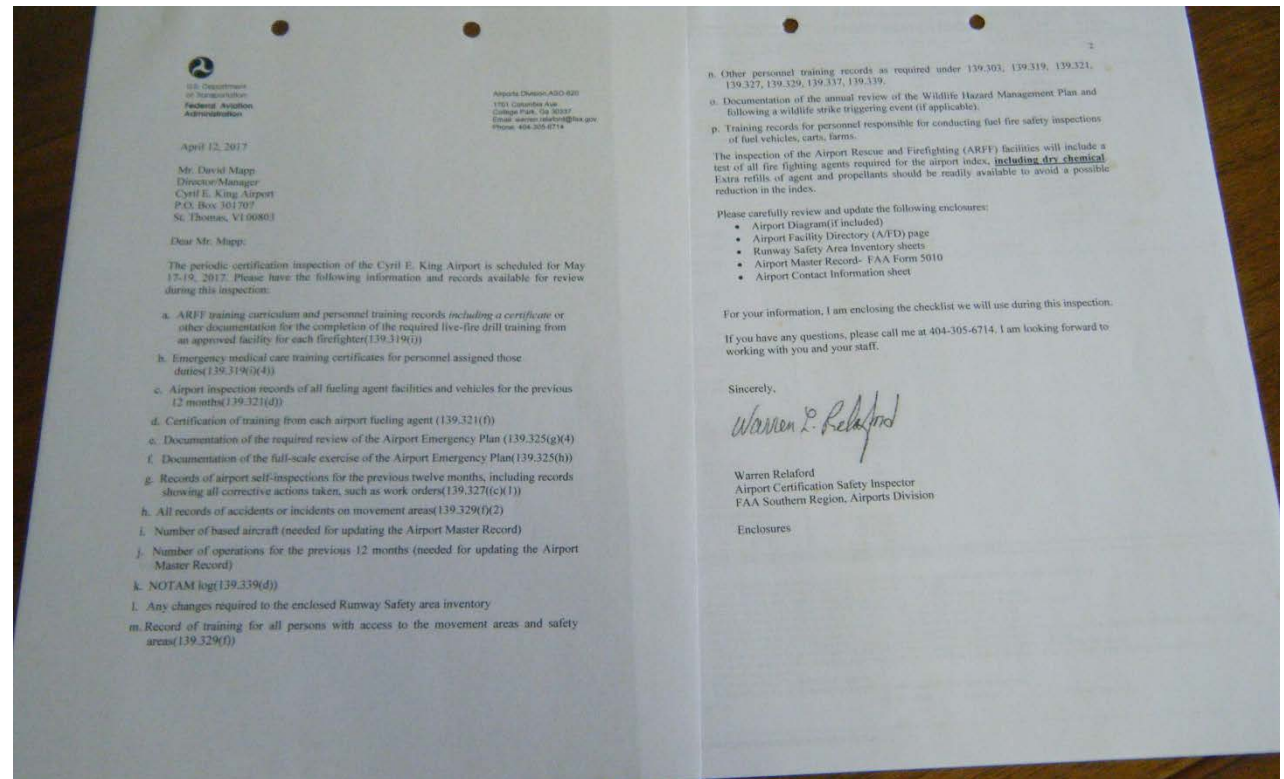


Coordination w/ colleagues



Pre- Inspection Actions

- Confirmation letter to the operator



The Inspectors' Toolkit

- What do you take with you?



Phases of the 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. **Post-Inspection Out-Briefing**



In-brief

- **Discuss**

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

- **Coordinate w/ ATC**

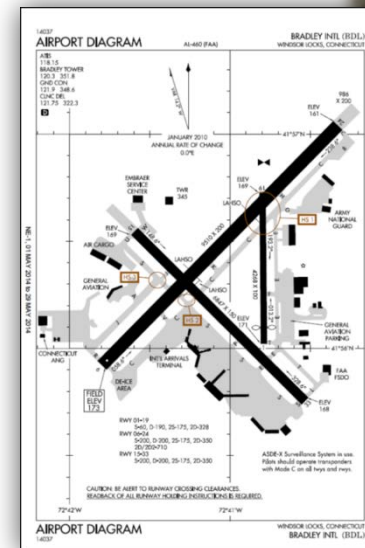
- Movement area driving concerns
- ARFF response drill



Administrative Inspection

normally prior to airport arrival

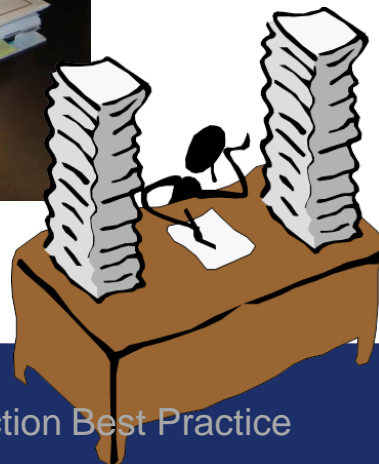
- **Conduct review of**
 - Airport Certification Manual
 - Wildlife Hazard Management Plan
 - Airport Emergency Plan
 - 5010 Airport Master Record
 - Airport Diagram
 - Sign & Marking Plan
 - NOTAMs



Administrative Inspection

Reviewing records required to be maintained by airport staff:

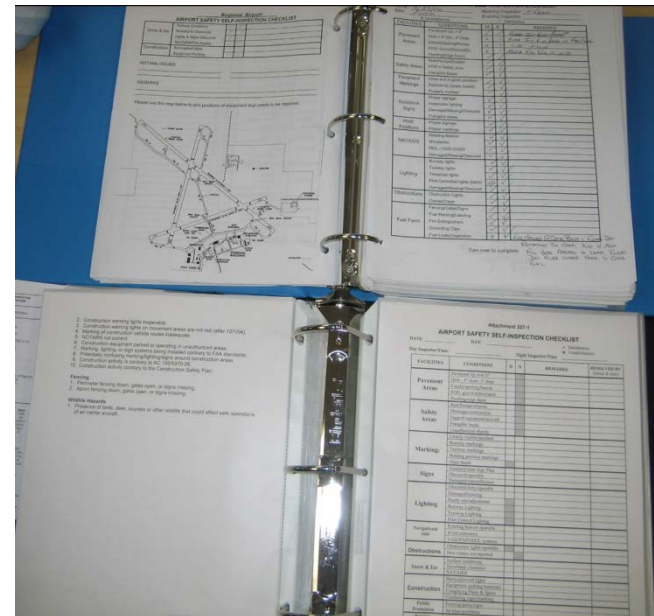
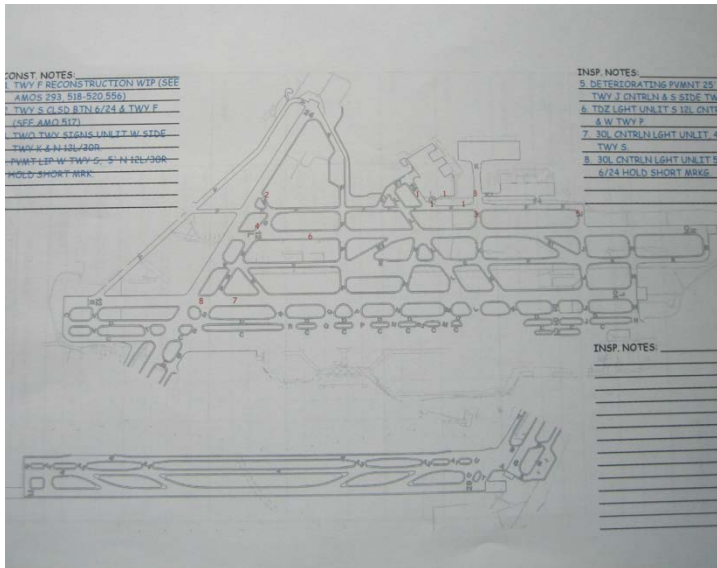
- Airport Personnel Training Curriculum & Records
- Ground Vehicle Operator & Pedestrian Training Curriculum and Training Records



Administrative Inspection

Reviewing the self inspection process:

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



Administrative Inspection

- 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 2150-0015	
1 ASSOC CITY: KANSAS CITY		4 STATE: MO		LOC ID: MCI	
2 AIRPORT NAME: KANSAS CITY INTL		5 COUNTY: PLATTE MO		FAA SITE NR: 118166A	
3 CBD TO AIRPORT (NM): 15 NW		6 REGION/ADO: ACENONE		7 SECT AERO CHT: KANSAS CITY	
GENERAL		SERVICES		BASED AIRCRAFT	
10 OWNERSHIP: PU		70 FUEL: 100LLA		90 SINGLE ENG: 0	
11 OWNER: CITY OF KANSAS CITY		71 AIRFRAME RPRS: NONE		91 MULTI ENG: 0	
12 ADDRESS: 601 BRASLIA; PO BOX 20047		72 PWV 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: 816-243-6248					
17 ATTENDANCE SCHEDULE: ALL ALL ALL					
		FACILITIES		OPERATIONS	
18 AIRPORT USE: PUBLIC		80 ARPT BCH: CG		100 AIR CARRIER: 132,202	
19 ARPT LAT: 39-17-51.3760N ESTIMATED		81 ARPT LOT SKED: DUSK-DAWN		102 AIR TAXI: 53,942	
20 ARPT LONG: 094-42-50.0600W		82 UNICOM: 122.500		103 G A LOCAL: 8	
21 ARPT ELEV: 1020 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: 194,669	
24 NON-COMM LANDING: NO		86 FSS: COLUMBIA		OPERATIONS FOR 12 MONTHS ENDING: 12/31/2007	
25 NPAS/IFD AGREEMENTS NOV		87 FSS ON ARPT: NO			
26 FAR 139 INDEX: I C 5 05/1973		88 FSS PHONE NR:			
		89 TOLL FREE NR: 1-800-WX-BRIEF			
RUNWAY DATA					
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		260.0	

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		
FAA Approved		
Date: <i>D. Hayes</i> MAY 22 2007		

Administrative Inspection

Review AEP, Rescue Firefighting and Fueling Records:

- Airport Emergency Plan Training records
- Documentation of AEP annual review
- Documentation of Full-scale AEP Exercise
- ARFF Training Curriculum & training records
- Basic Emergency Medical Care training records
- Fuel Inspection records
- Fueling Agent Training records



Movement & Safety Area Inspection

- **Inspect RWY, TWY, safety areas, pavement, marking, lights**



Movement & Safety Area Inspection

- **At the end of each RWY, check APCH slope**
 - 200ft from threshold
- **Compare results to Master Record**
 - If questionable objects exist, airport should have official survey performed



Movement & Safety Area Inspection

- **Observe ground vehicle operations – limited access to movement area**
 - Listen for proper phraseology
 - ATCT Read-back
 - Properly marked vehicles – rotating beacon, decals, colors, etc
 - Speed limits



Movement & Safety Area Inspection

- Observe for the presence of wildlife



ARFF Inspection

- **Check that airport conducts foam test**
 - Refractometer or conductivity test
 - Conduct at least once a year—keep documentation



ARFF Inspection

- **Conduct timed response drill**
 - 3 minutes with Index apparatus
 - 4 minutes for other apparatus
 - **Cannot conclude inspection if time is not met!
- **Inspect apparatus for proper maintenance**
- **Check training in 11 subject areas + live fire**
- **Check Emergency Medical Services training for at least one person per shift during air carrier operations**

Fuel Inspection



Fuel Inspection

- Check training for supervisor and linemen
- Check mobile fuelers and fuel farm are inspected every 3 months
- Inspect for fire safety standards



Wildlife Hazard Management Inspection

- **Observe signs and habitats conducive to wildlife**
- **Check that airport receive yearly wildlife training**
- **WHMP is reviewed 12ccm**
- **Check wildlife fencing**



Night Inspection

- Check RWY/TWY light alignment and optical performance
- Check marking and sign visibility—glass beads
- Check visibility of wind indicators



Night Inspection



Air Traffic Control Interview

- **There is no Part 139 regulatory inspection requirements associated with the Air Traffic Control Facility; however FAA inspectors are encouraged to meet with the Air Traffic Control Manager**
- **Allows the inspector to discuss potential issues or concerns with airport**

Post-Inspection Out-brief

- **Discuss non-compliance items and safety concerns identified during inspection**
 - Assess the compliance attitude of airport personnel
 - willingness to comply with requirements
- **If a Letter of Compliance is issued, agree on correction date by which the non-compliance must be correct**
- **If there are no non-compliant issues, issue an Inspection Close-out Letter**
- ***Goal is to bring airport back to compliance**

Knowledge Test



- What are the 9 phases of an inspection?
- In which phase would you inspect the illumination of lights & signs?
- What is the purpose of a post inspection out-brief?



Any Questions?

