

# *Compliance Inspections/Self Inspections*

Presented to: MAMA Meeting

By: Steve Engebrecht, P.E.

Date: September 23, 2014



Federal Aviation  
Administration



# Airport Safety Self Inspection

- **FAA Advisory circular 150/5200-18C – 04/23/2004**
  - Acceptable means of compliance with 14 CFR Part 139 requirements
  - Contains many safety practices that the FAA recommends for use at all airports



# Airport Safety Self Inspection

- **The Advisory Circular covers the following operational items:**
  - pavement areas
  - safety areas
  - markings
  - signs and lighting
  - navigational aids
  - obstructions
  - public protection
  - wildlife hazard management
  - fueling operations
  - snow and ice control
  - construction
  - aircraft rescue and fire fighting



# Airport Safety Self Inspection

- **An effective safety self-inspection program includes procedures for reporting and correcting deficiencies**
- **The airport operator should have a system in place so that deficiencies can be corrected in an expeditious manner**
- **The airport operator should issue a Notice to Airmen (NOTAM), reporting deficient conditions that could have an immediate and critical impact on the safety of aircraft operations**



# Airport Safety Self Inspection

- **Safety self-inspection checklist**
  - constitutes a written record of conditions noted, and acts as a check on follow-up actions taken
  - the scheduled use of a dated checklist will assure the regularity and thoroughness of safety inspections and follow-up
  - can provide a snapshot of the condition of the airport, indicating trends, defining problem areas, indicating systems that are beginning to deteriorate and helping to define budgetary requirements
  - various checklists are included in the Appendix to the Advisory Circular



**AIRPORT COMPLIANCE INSPECTION REPORT**

AIRPORT NAME Bear Lake  
Franklin County AIRPORT LOCATION Paris, ID  
 AIRPORT SPONSOR Bear Lake County DATE OF INSPECTION 7/17/2014  
 SPONSOR OBLIGATION FAAP/ADAP/AIP  PL 80-289  REG 16  AP4  SEC 16/23  EXCLUSIVE RIGHTS ONLY   
 NAME AND TITLE OF PERSONS CONTACTED Danny McClendo, Hank Medford

S - SATISFACTORY U - UNSATISFACTORY NA - NOT APPLICABLE R - REMARKS  
 (Unsatisfactory Condition Requires Remarks - Page 2)

	S	U	NA	R
<b>PAVEMENT CONDITION</b>				
1. SURFACE/STRUCTURAL CONDITION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. PAVEMENT LIFE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. CONTAMINANTS/DEBRIS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. PONDING/DRAINAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. FRICTION TREATMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<b>SAFETY AREAS</b>				
1. DIMENSIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. NONFRANGIBLE/NONESSENTIAL OBJECTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. SURFACE MAINTENANCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>MARKING AND LIGHTING</b>				
1. RUNWAY/TAXIWAY MARKING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. RUNWAY/TAXIWAY LIGHTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. AIRPORT BEACON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. WIND INDICATOR/SEGMENTED CIRCLE/TRAFFIC PATTERN INDICATOR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. NAVAIDS/VISUAL AIDS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. GUIDANCE SIGNS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<b>OBSTRUCTIONS</b>				
1. ON AIRPORT OBSTRUCTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. OFF AIRPORT OBSTRUCTIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. OBSTRUCTION MARKING/LIGHTING	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. ZONING ORDINANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. DISPLACED THRESHOLD CRITERIA MET	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*not determined*

<b>AIRPORT OPERATIONS</b>				
1. FENCING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. BIRD HAZARD POTENTIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. FUEL HANDLING/EQUIPMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. VEHICULAR CONTROL AND IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. SNOW AND ICE CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*not determined*

<b>ADMINISTRATIVE</b>				
1. CURRENT ALP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. ADJACENT LAND USE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. ENVIRONMENTAL COMMITMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. CIVIL RIGHTS/DBE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. HANDICAPPED ACCESS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. RULES AND REGULATIONS/MINIMUM STANDARDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. LEASE AGREEMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. AIRPORT REVENUE AND ACCOUNTABILITY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. USE OF FEDERALLY FUNDED AIRPORT LAND/IMPROVEMENTS/EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. MAINTENANCE OF OBLIGATED BUILDINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. ADEQUACY/AVAILABILITY OF PUBLIC RAMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*not evaluated*

REPORT SUBMITTED BY *[Signature]* 7/17/2014  
 INSPECTOR'S SIGNATURE DATE

COMPLIANCE DETERMINATION  COMPLIANCE  CONDITIONAL COMPLIANCE  NONCOMPLIANCE



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections**

- Pavement Areas

- Pavement lips allow drainage off pavement but <3 inches
    - Pavement cracks wide enough to cause aircraft directional control problems
    - Holes in pavement that could cause aircraft directional control problems
    - Check the condition of pavement areas for cracks, scaling, spalling, bumps, low spots, and for debris that could cause foreign object damage to aircraft
    - Check for vegetation growth along runway and taxiway edges that may impede drainage from the pavement surface
    - Check for vegetation growth in cracks
    - Report and monitor any cracks, holes, variations and vegetation that can cause loss of aircraft directional control or may cause pavement damage, including damaged caused by damming or ponding water



# Airport Safety Self Inspection

**S - SATISFACTORY**

**U - UNSATISFACTORY**

**NA - NOT APPLICABLE**

**R - REMARKS**

(Unsatisfactory Condition Requires Remarks - Page 2)

**PAVEMENT CONDITION**

	S	U	NA	R
1. SURFACE/STRUCTURAL CONDITION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. PAVEMENT LIFE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. CONTAMINANTS/DEBRIS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. PONDING/DRAINAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. FRICTION TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Safety Areas
    - Check for hazardous ruts, depressions, humps or variations from the normal smooth surface
    - Check for objects in safety area that are not fixed by function
    - Check for frangible mounts no more than 3 inches above grade
    - Determine if the base for any equipment (NAVAIDS) and mounts for light fixtures are at grade level
    - Check to ensure that manhole and handhole covers are at grade level and can support vehicles and aircraft
    - Check for surface variation and other damage caused by rodents or other animals
    - Report any objects that are not frangible or not at grade level. Also report extraneous equipment and objects, such construction equipment, and surface variations that would cause damage to an aircraft or impede emergency response vehicles



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(Unsatisfactory Condition Requires Remarks - Page 2)

S	U	NA	R
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**SAFETY AREAS**

1.	DIMENSIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	NONFRANGIBLE/NONESSENTIAL OBJECTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	SURFACE MAINTENANCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Markings
    - Check markings for correct color-coding, peeling, blistering, chipping, fading, and obscurity due to rubber buildup
    - Check to see if all runway hold position markings are clearly visible
    - During and after construction projects, check new markings for compliance with FAA marking standards
    - If the markings have glass beads, check markings during periods of darkness to determine if the reflectivity of glass beads is adequate at night
    - Report and monitor any nonstandard marking or markings that are obscured, faded or deteriorating



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Signs
    - Check signs to ensure they are easy to read, in accordance with color standards, retro-reflective, and that all lighted signs are working and not obscured by vegetation, dirt, snow, etc.
    - Check signs to ensure they are frangibly mounted and concrete bases are properly maintained at grade level
    - Check to see that sign panels are not missing or damaged, that they have the correct legend and arrow orientation, and that they are not cracked or broken
    - During and after construction projects, check new signs for compliance to FAA sign standards
    - During periods of darkness, check signs to ensure they are properly illuminated. Ensure mandatory instruction signs are illuminated with the associated runway lighting system
    - Report and monitor any nonstandard sign or any sign that is not functioning, is faded or damaged



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Lighting
    - Check to ensure that runway, taxiway, and apron edge lights and runway threshold/end lights are operable, and that vegetation or deposits of foreign material do not obscure the light fixture
    - Check that obstruction lights are operable
    - Check that runway and taxiway lights and runway threshold lights are the proper color and are oriented correctly
    - Check that lights function properly through the manual or radio control features, and that photocell controls function properly
    - Check the lights for proper alignment, aiming and correct changes in intensity, for correct height, erosion around the bases and the height of frangibility
    - Report all fixtures missing and lights that are not working or appear dim
    - Report any missing or broken light fixture lenses



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - NAVAIDs
    - Determine if the segmented circle is clear of vegetation and that it can be seen easily from the air
    - Determine if the airport rotating beacon is visible and working properly
    - Check the wind cone(s) to ensure that it swings freely, the cone fabric is not faded or frayed, and, if lighted, that all lights are operating
    - Determine if the Runway End Identifier Lights are flashing in proper sequence and mounted on frangible couplings
    - Check Visual Glide Slope Indicators (VASIs, PLASIs, or PAPIs) to ensure that their lights are working, properly aligned, and mounted on frangible couplings
    - Determine if the Approach Lighting systems are functioning properly
    - Report and monitor any NAVAID that is malfunctioning, inoperable or misaligned, damaged or missing



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(Unsatisfactory Condition Requires Remarks - Page 2)

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**R - REMARKS**

S	U	NA	R
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**MARKING AND LIGHTING**

1.	RUNWAY/TAXIWAY MARKING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	RUNWAY/TAXIWAY LIGHTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	AIRPORT BEACON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	WIND INDICATOR/SEGMENTED CIRCLE/TRAFFIC PATTERN INDICATOR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	NAVAIDS/VISUAL AIDS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.	GUIDANCE SIGNS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Obstructions
    - Check to ensure that construction equipment, especially tall cranes being used at construction sites, are not an obstruction. If applicable, determine if proper notification to FAA, such as is required through Part 77 or Airport Layout Plan review, has been provided
    - Determine if obstructions are properly marked and lighted
    - Direct any person proposing construction near a public-use airport meeting the notice requirements contained in Part 77, Objects Affecting Navigable Airspace, to the Air Traffic Division or Airports District Office immediately if their construction has not been reported to the FAA
    - Report and monitor any obstruction light that is missing, inoperative or damaged, and any object that appears to be an obstruction and is not properly marked or lit
    - I check object free areas and runway obstacle free zones



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**OBSTRUCTIONS**

1. ON AIRPORT OBSTRUCTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. OFF AIRPORT OBSTRUCTIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. OBSTRUCTION MARKING/LIGHTING	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. ZONING ORDINANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. DISPLACED THRESHOLD CRITERIA MET	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*not determined*



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Public Protection
    - Check that gates, fencing, locks, and other safeguards are in place and functioning properly to prevent inadvertent entry to movement areas by unauthorized persons and vehicles and offer protection from jet blast
    - Report and monitor any safeguards that are damaged or missing



# Airport Safety Self Inspection

- **Regularly Scheduled Inspections (daily)**
  - Wildlife Hazard Management
    - Check for evidence of birds or animals on the runways, taxiways, aprons, and ramps or other signs that wildlife problems may have developed - such as large flocks of birds on or adjacent to the airport.
    - Wildlife hazards found during the daily self-inspection should be properly documented.
    - Report all dead wildlife found and all wildlife aircraft strikes to the FAA on the FAA Form 5200-7, Bird/Other Wildlife Strike Report. This form may be obtained from the FAA Internet site, at [www.faa.gov](http://www.faa.gov).
    - Check fencing and gates for wildlife accessibility and ensure that wildlife control equipment is available and operational.



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(Unsatisfactory Condition Requires Remarks - Page 2)

S	U	NA	R
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**AIRPORT OPERATIONS**

1.	FENCING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	BIRD HAZARD POTENTIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	FUEL HANDLING/EQUIPMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	VEHICULAR CONTROL AND IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.	SNOW AND ICE CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*not determined*



# Airport Safety Self Inspection

**S - SATISFACTORY**

**U - UNSATISFACTORY**

**NA - NOT APPLICABLE**

**R - REMARKS**

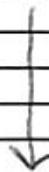
(Unsatisfactory Condition Requires Remarks - Page 2)

S	U	NA	R
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**ADMINISTRATIVE**

1.	CURRENT ALP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	ADJACENT LAND USE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	ENVIRONMENTAL COMMITMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	CIVIL RIGHTS/DBE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	HANDICAPPED ACCESS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	RULES AND REGULATIONS/MINIMUM STANDARDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	LEASE AGREEMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	AIRPORT REVENUE AND ACCOUNTABILITY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9.	USE OF FEDERALLY FUNDED AIRPORT LAND/IMPROVEMENTS/EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	MAINTENANCE OF OBLIGATED BUILDINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11.	ADEQUACY/AVAILABILITY OF PUBLIC RAMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*not evaluated*



REPORT SUBMITTED BY

*[Handwritten Signature]*

INSPECTOR'S SIGNATURE

*7/17/2014*

DATE

COMPLIANCE DETERMINATION

COMPLIANCE

CONDITIONAL COMPLIANCE

NONCOMPLIANCE



# ANY QUESTIONS?

