

Runway and Taxiway Construction Safety

FAA Airport Construction Advisory Council (ACAC)

Presented to: Hershey Airports Conference

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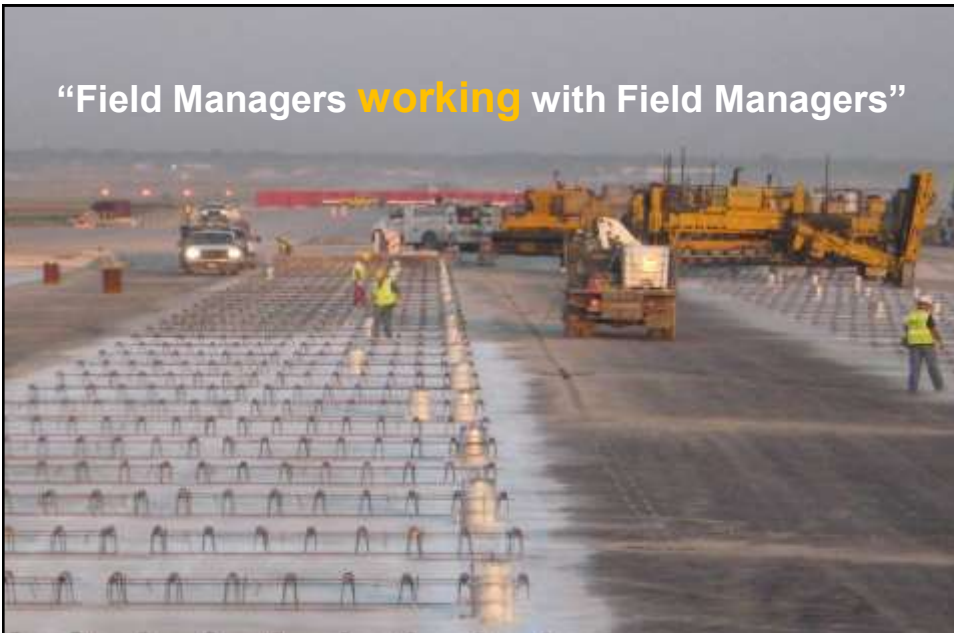
Date: March 3, 2015



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“Field Managers **working** with Field Managers”



Runway and Taxiway Construction Initiatives
FAA Airport Construction Advisory Council



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NBAA
ACI-NA
Airline Dispatchers Federation
Airports Division
Airlines For America
ALPA
ATO Safety
Flight Safety Foundation
Flight Standards
ICAO
AOPA
NATCA
AAAE

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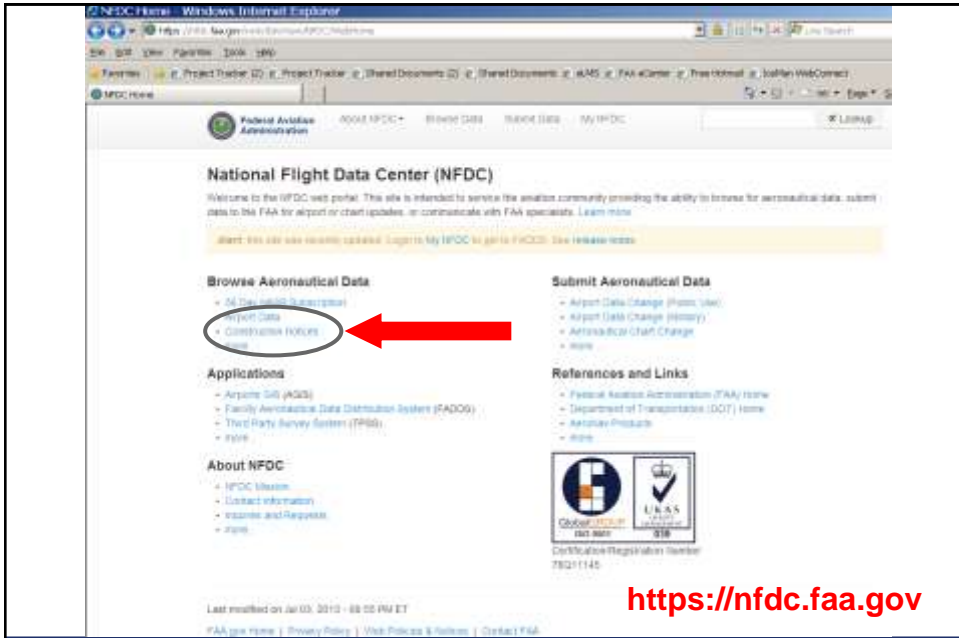
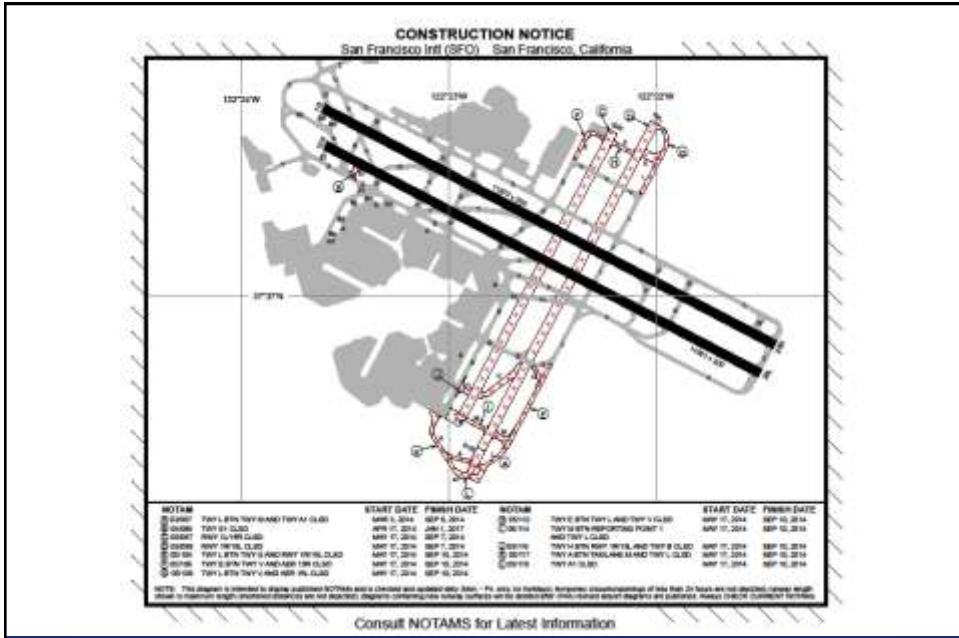
Linking symptoms and initiatives

- | | |
|---|---------------------------------------|
| 1. Incomplete/ineffective ATIS broadcasts | 1. New ATIS requirements |
| 2. "Full length" confusion | 2. "Full length" prohibited |
| 3. Missed NOTAMs | 3. New takeoff and landing clearances |
| 4. Airport Diagrams | 4. Construction Notice Diagrams |
| 5. Visual Cues | 5. Orange Signs |

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We have conducted evaluation of orange construction warning signs at 5 airports

**RWY 4L TAKEOFF RUN
AVAILABLE 9,780 FT**

**CONSTRUCTION
AHEAD**

ISP

ORD

PDX

PVD

SFB

JFK

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New signage for shortened runways



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New signage to alert pilots about airport construction



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New signage when illuminated by aircraft/vehicle lights at night



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Air Traffic Management :

1. **Notify ACAC**
 - **ConstructionCouncil@faa.gov**
2. **Train controllers prior to construction**
3. **Onsite Support for Managers by ACAC Managers**
4. **Use ACAC tools (Best Practices, Checklist)**



Best Practices

No.	Best Practice / Lesson Learned	Loc.
8	Refine operating concept, and break projects down into phases. Integrating projects into single plan ensures that the cumulative effect of projects is considered, rather than projects being evaluated as stand alone. Matrix/Timelines provide a good visual reference of project overlap and/or influence on other projects. Identify critical stages needing completion prior to next phase: I.e. a taxi route needed for completion of one phase might be eliminated by the next phase; always look into each construction phase carefully to identify critical events that could ripple into the next phase(s)	ORD JFK
9	Once the phases and timeline have been broken down, involve Sys Ops. Start to develop impact statement.	ORD
10	Airlines and airport operator work together on publicity campaign; start of the communications campaign is driven by the ability to get the information out to the aircraft operators; typically, information is published about 1 month prior to actual work; make sure to involve air carrier Certificate Management Offices (CMO); Begin outreach with customers at least one year in advance, sooner if possible. They also have a tremendous amount of planning to do, especially if they are planning to adjust schedules and marketing plans for the construction period. This involves major airlines, dispatchers, chief pilots, scheduling, marketing, and user groups such as ALPA, NBAA and AOPA.	ORD MSP



Runway Construction checklist

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Partial Runway Construction Closure Checklist

Partial Runway Closure (Relocated Threshold) Start date: _____

		Required	Status	Date Complete	Reason Not Accomplished
As Early as Possible:					
1	Review lead practitioners/lessons learned	X	0%	21	
2	Notify local Technical Operations System Support Center (TSSC) of proposed start and end dates to begin NAVAID evaluation for impact and to begin the Strategic Event Coordination (SEC) for NAVAID shutdown during construction	X	0%	21	
3	Review airport Master Plan (long range) with airport authority. Review specific master plans (road or landing changes), request date updates be posted on airport authority website.	X	0%	21	
4	Notify the Airport Construction Advisory Council via email to the following address: 9-AJA-ConstructionCouncil@faa.gov	X	0%	21	
5	Coordinate with sponsor to effect closure consistent to publications/charting date		Best Practice	0%	21
6	Conduct and complete SMS activities (SRMD, SRMDM, etc.)	X	0%	21	
7	Model the construction in the simulator	X	0%	21	
8	Advise/coordinate project with regional Runway Safety Office - accomplish local regional ROSAT focused on construction impact	X	0%	21	
9	Take communication strategy to this project	X	0%	21	
10	Coordinate with Traffic Management - develop impact statement	X	0%	21	
11	Confirm effect to instrument procedures, critical areas, protected surfaces (check with AFB)	X	0%	21	
12	Review necessary LOA changes related to local operators	X	0%	21	
13	Evaluate whether construction may generate need for new/different runway hold points	X	0%	21	
14	Review ARTF road/staging and suspicious materials holding areas with airport authority	X	0%	21	
15	Confirm location of RNA(s) for each proposed and existing runway affected	X	0%	21	
16	Determine extent of surface surveillance (ASDE-X and/or AMASS) map changes needed and coordinate as necessary	X	0%	21	
17	Determine whether video map set change is needed and coordinate as necessary	X	0%	21	

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Reachout

ICAO

CDG Interaction

AAAE Workshops/Webinars

NBAA Workshops/Convention

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ALL POINTS/SAFETY
everyone. everywhere. everyday.

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