

Welcome to

SKY brary

Safety Knowledge Initiative

Antonio Licu
EUROCONTROL
Head of Safety Unit (DNM Directorate)

antonio.licu@eurocontrol.int

www.eurocontrol.int/safety

www.skybrary.aero

***“A safety improvement anywhere is a
improvement of safety everywhere”***

Adopted from International Atomic Energy Agency



In this presentation

in brief

Background

What SKYbrary brings to you

The users

Runway Safety on SKYbrary

EUROCONTROL Safety Alerts

In this presentation

in brief

Background

What SKYbrary brings to you

The users

Runway Safety on SKYbrary

EUROCONTROL Safety Alerts

Accidents

Do we learn the lessons?



- SKYbrary quoted as “The most trustworthy source...”
- In 2009 the ESSI became a partner and a member of the editorial board of SKYbrary, the reference documentation and knowledge management centre developed by EUROCONTROL in cooperation with ICAO, Flight Safety Foundation, UK Flight Safety Committee (FSC), and the International Federation of Airworthiness (IFA)

Accidents in 2010

Do we learn the lessons?

- **825** fatalities in total in commercial jet, commercial turboprops and corporate jets accidents
- **37** major accidents*
- Commercial jet **loss of control** accidents and commercial turboprop **CFIT**'s dominate the fatality numbers

* FSF definition of major accident

Safety Knowledge

Satisfying a need

- A great deal of safety knowledge is available on the Internet but...
 - **what** is out there?
 - **where** is it?
 - can I **access** it?
 - is it **correct**?

Conception

Satisfying a need

- **The Origin of SKYbrary:**
 - **EUROCONTROL Safety Improvement Sub Group (SISG) desire for central repository - source of ATM best practice**
 - **HindSight Magazine**

In this presentation

in brief

Background

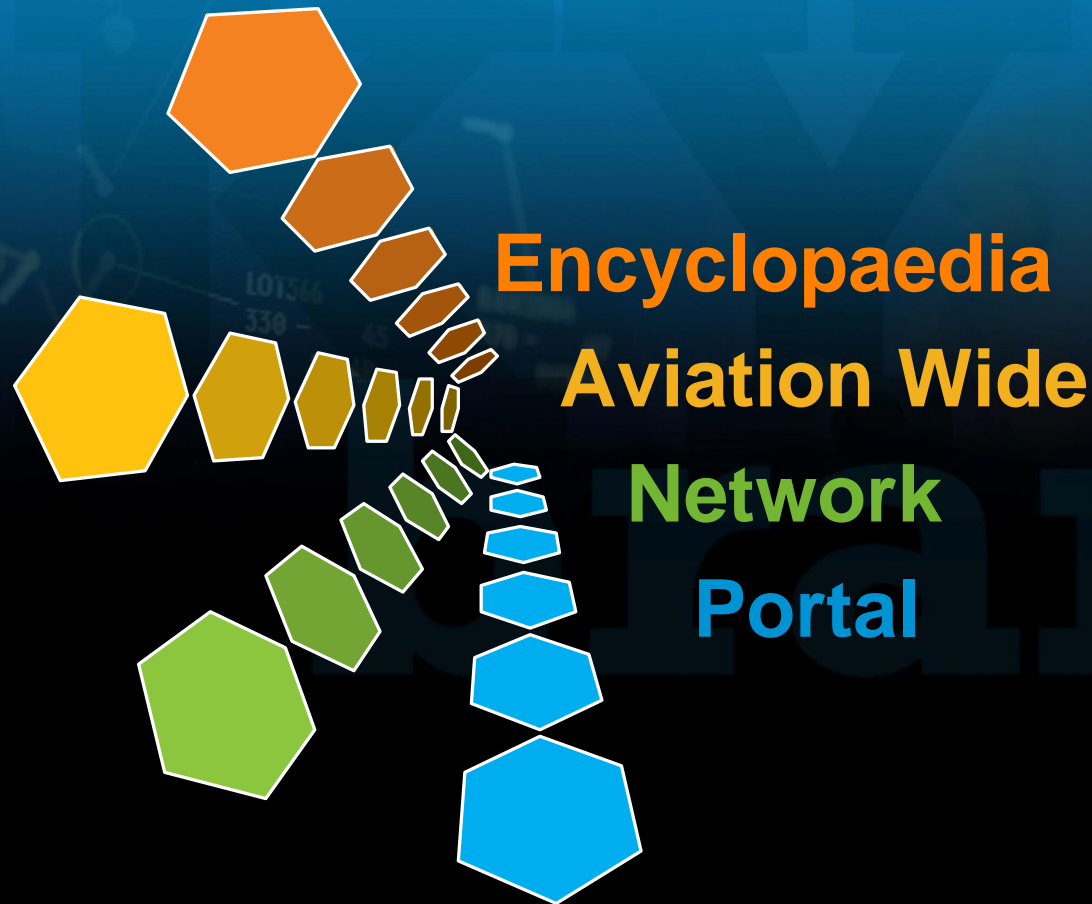
What SKYbrary brings to you

The users

Runway Safety on SKYbrary

EUROCONTROL Safety Alerts

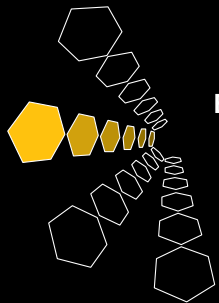
The **value** SKYbrary brings to you



Aviation Encyclopaedia

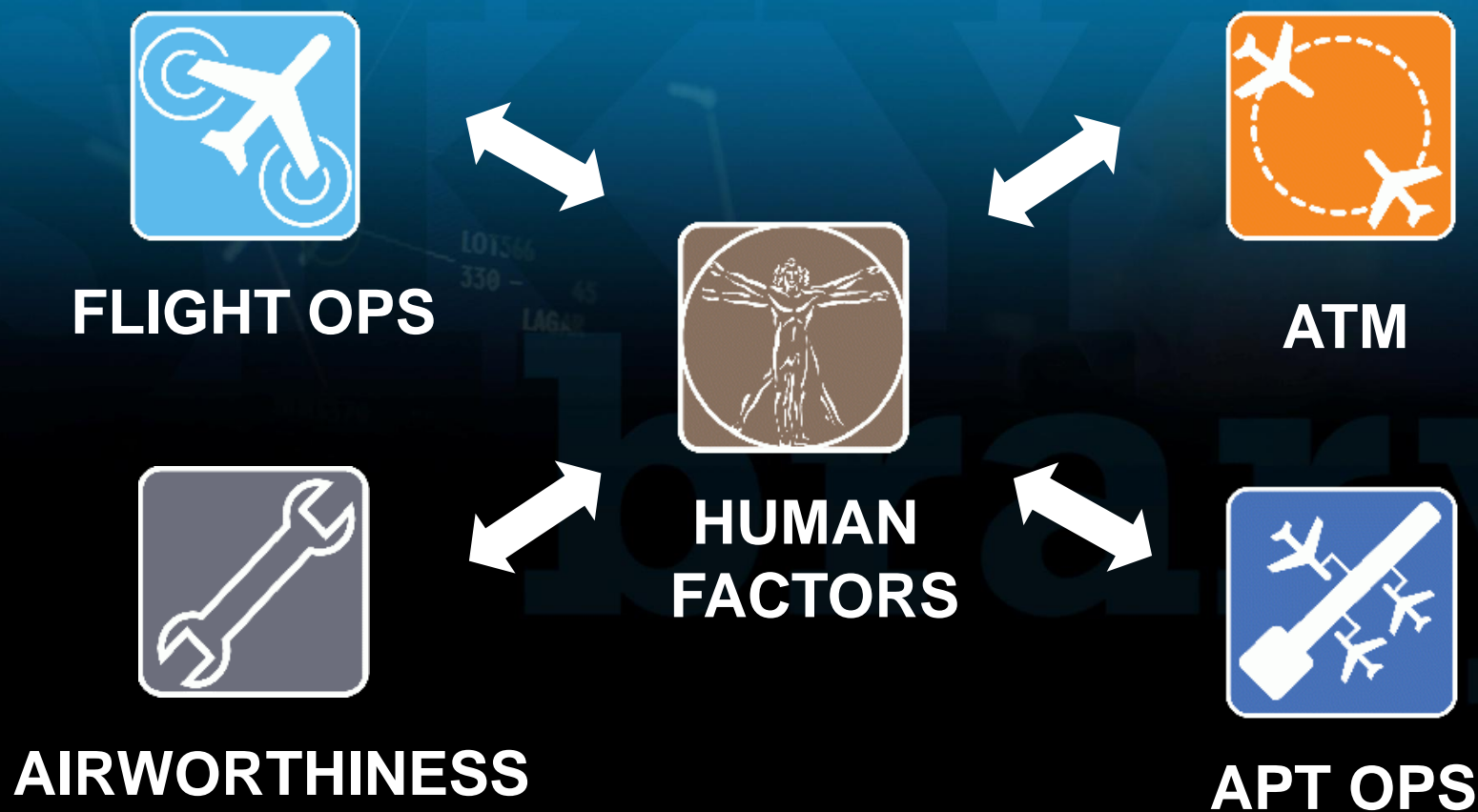
availability vs. accessibility

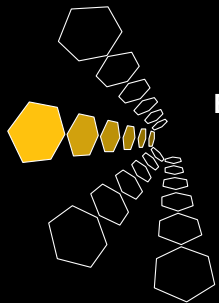




Encyclopaedia
Aviation Wide

Aviation wide source *availability vs. feasibility*

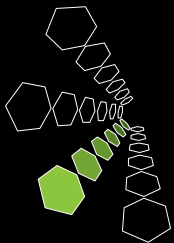




Encyclopaedia
Aviation Wide

Aviation wide source *involvement vs. credibility*





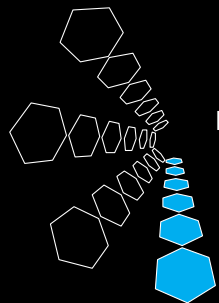
organic growth vs. neatly organised

■ KNOWLEDGE PERSPECTIVE

- Covering the entire safety improvement cycle
- Network of articles
- A wealth of documents on the bookshelf
- Hyperlinks to credible sources/websites

■ PEOPLE PERSPECTIVE

- Partnerships
- Users
- Email campaigns
- Discussion pages



Encyclopaedia
Aviation Wide
Network
Portal

Portal

“Good-to-know” vs. “Need-to-do”

- How to shape behavior: know => learn to do => habit

ALLCLEAR? The path to clear communications

Welcome Guest

Introduction Communications Risk of Breakdown Summary & Links

Air Ground Communications
Introduction to this module

Interactive applications!
Video tutorials

Entry point to global safety knowledge

- SKYBrary can serve as a fast knowledge locator tool
- SKYBrary is a 'wiki' of organisations, not of individuals
- Current partners: FSF, ICAO, ESSI, CAST, UK FSC, IFA and SM ICG

[SKYbrary ICAO Search](#)

[SKYbrary Wiki Search](#)

In this presentation

in brief

Background

What SKYbrary brings to you

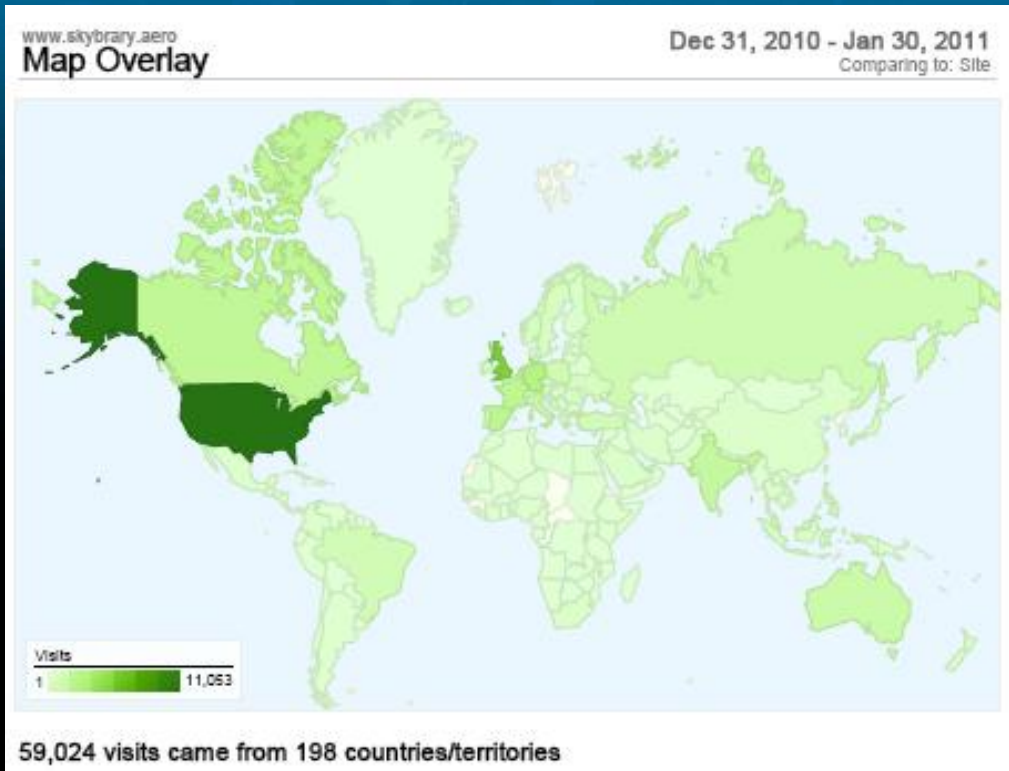
The users

Runway Safety on SKYbrary

EUROCONTROL Safety Alerts

SKYbrary Users

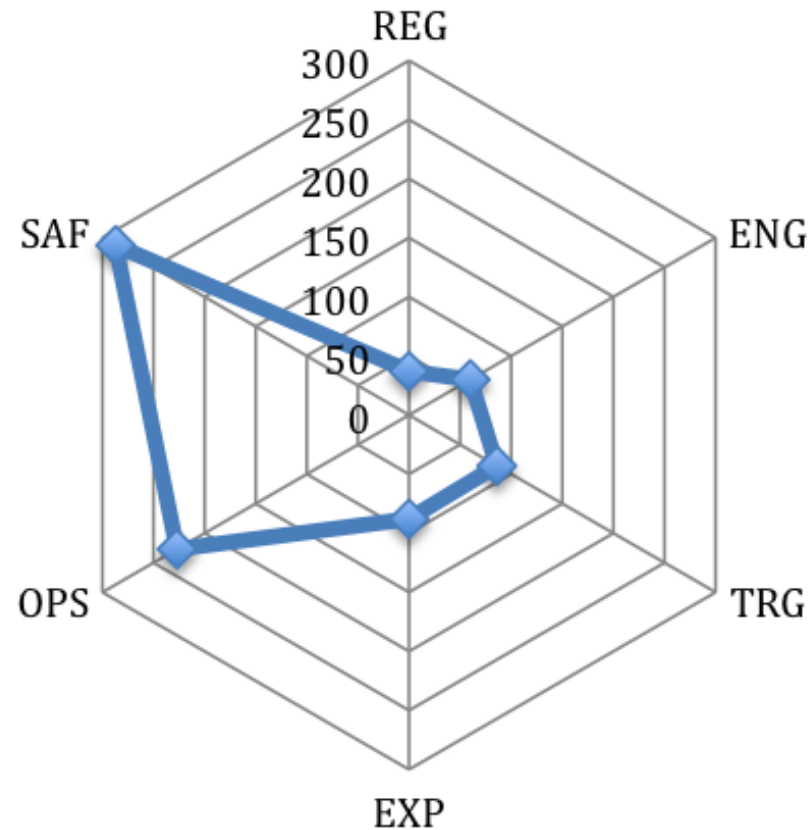
Google Analytics



- Over 2000 users per day;
- 17 000 registered aviation safety professionals;
- 1 051 520 visits in 2010;
- Visitors from all countries of the world.

SKYbrary Users

Survey of 665 users



In this presentation

in brief

Background

What SKYbrary brings to you

The users

Runway Safety on SKYbrary

EUROCONTROL Safety Alerts

navigation

- Home page
- Operational issues
- Human performance
- Enhancing safety
- Safety regulations
- Accidents and incidents
- Aircraft Types
- Airport Directory
- OGHFA
- Organisations
- Bookshelf
- Publications
- ICAO FSIX

work in progress

- Draft articles
- Request an article

information

- About SKYbrary
- Contact us
- Help
- Who is who
- Glossary

toolbox

- What links here
- Special pages
- Printable version
- Permanent link

If you wish to contribute or participate in the discussions about articles you are invited to **join** SKYbrary as a registered user

Operational Issues



Air Ground
Communication



Ground
Operations



Runway
Excursion

Human Performance



Airspace
Infringement



Airworthiness



Runway
Incursion

Enhancing Safety



Bird Strike



Level Bust



Wake
Vortex
Turbulence

Safety Regulations



Controlled
Flight Into
Terrain



Loss of
Control



Weather



Fire Smoke &
Fumes



Loss of
Separation



Emergency &
Contingency

Highlighted Article

Hot Spots at Aerodromes

posted 26 April 2011 | in Category:Runway Incursion

Locations on an aerodrome movement area, with history or potential risk of collision or runway incursion, deserve heightened attention by pilots/drivers. **More...**

Follow us...



Safety Alert

ANSP Preparation for Emergency, Degraded modes of Operation and Unusual Situations

posted 24 February 2011 | in Category:Safety Reminder Message

A number of short-term, catastrophic failures of ATC system components e.g. Voice Communication Systems (VCS) and Flight Data Processing (FDP) at various European area control centres have occurred during recent months. In each case the ATC staffs have responded promptly

navigation

- [Home page](#)
- [Operational issues](#)
- [Human performance](#)
- [Enhancing safety](#)
- [Safety regulations](#)
- [Accidents and incidents](#)
- [Aircraft Types](#)
- [Airport Directory](#)
- [OGHFA](#)
- [Organisations](#)
- [Bookshelf](#)
- [Publications](#)
- [ICAO FSIX](#)

work in progress

- [Draft articles](#)
- [Request an article](#)

information

- [About SKYbrary](#)
- [Contact us](#)
- [Help](#)
- [Who is who](#)
- [Glossary](#)

toolbox

- [What links here](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

If you wish to contribute or participate in the discussions about articles you are invited to [join SKYbrary](#) as a registered user

Local Runway Safety Teams (LRST)

Categories: [Runway Incursion](#) | [Operational Issues](#)

Local Runway Safety Team (LRST)

Description

The [European Action Plan for the Prevention of Runway Incursions](#), revised in 2003, included the following recommendation:

"At individual aerodromes, as designated by the National Aviation Safety Authorities, a Runway Safety Team should be established and maintained to lead action on local runway safety issues."

Although many aerodromes already have cross-discipline teams working to improve safety, the establishment of Local Runway Safety Teams (LRSTs) has proven to be an effective and practical way of reducing [runway incursions](#).

Comprising representatives from the aerodrome operator, [ANSP](#), and aircraft operators, the LRST's role is to advise on runway safety issues and to recommend solutions. Local awareness campaigns are designed by the LRSTs to inform the users and those responsible for the safety of the manoeuvring area about the factors contributing to runway incursions with a view to eliminating or mitigating them in the short term.

Related Articles

- [Runway Incursion](#)

Further Reading

- [ICAO Doc 9870](#) , Chapter 3
- [Appendix C to The European Action Plan for the Prevention of Runway Incursions](#)  provides guidelines for LRSTs.
- [Runway Safety Newsletter February 2007](#)  includes some of the issues presented at the EUROCONTROL Local Runway Safety Team

Article Information

Category: [Runway Incursion](#)



Content source: SKYbrary



Content control: EUROCONTROL



In this presentation

in brief

Background

What SKYbrary brings to you

The users

Runway Safety on SKYbrary

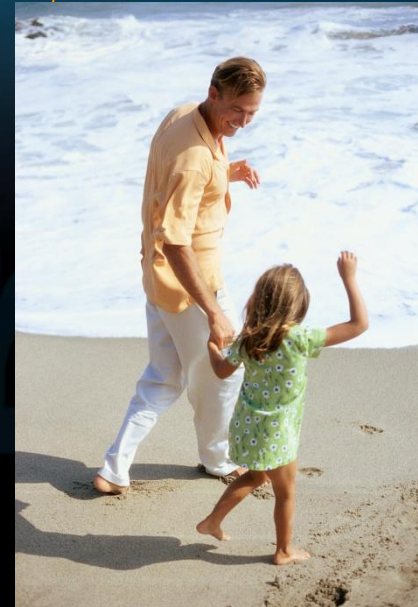
EUROCONTROL Safety Alerts

EUROCONTROL SAFETY Alerts

An Agency Service



- Aiming to notify identified risks.
- Delivered through 3 types of messages:
 - **Safety Warning**
 - **Safety Reminder**
 - **Request For Support**
- Distribution +4500 aviation professional subscribers
- Runway incursion prevention



navigation

- [Home page](#)
- [Operational issues](#)
- [Human performance](#)
- [Enhancing safety](#)
- [Safety regulations](#)
- [Accidents and incidents](#)
- [Aircraft Types](#)
- [Airport Directory](#)
- [OGHFA](#)
- [Organisations](#)
- [Bookshelf](#)
- [Publications](#)
- [ICAO FSIX](#)

work in progress

- [Draft articles](#)
- [Request an article](#)

information

- [About SKYbrary](#)
- [Contact us](#)
- [Help](#)
- [Who is who](#)
- [Glossary](#)

toolbox

- [What links here](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

If you wish to contribute or participate in the discussions about articles you are invited to [join SKYbrary](#) as a registered user

Runway Incursion, Taxi to Holding Position

Categories: [Operational Issues](#) | [Safety Alert](#) | [Safety Warning Message](#)

Safety Warning Message

Runway Incursion, Taxi to Holding Position

Date: 11 January 2005



What We Experienced

- Recent SISG discussions have identified that [Runway Incursion](#) continues to be a key risk area. Two specific concerns have been raised regarding the misinterpretation of communications:
 1. mis-interpretation of the "HOLD SHORT" instruction, and
 2. mis-interpretation of the "TAXI TO HOLDING POSITION" instruction.

An ANSP provided a voice communications record from a recent incident illustrating the second example.

ICAO Procedure

The [European Action Plan for the Prevention of Runway Incursions](#) [\[B\]](#) provides: "The most common phraseology problem for non European based flight crew, is the fundamental difference between:

- the North American phraseology: "TAXI INTO POSITION AND HOLD" (which has the same meaning as the ICAO standard phrase "LINE UP [AND WAIT]"), and
- the standard ICAO phraseology: "TAXI TO HOLDING POSITION" (which means taxi to, and hold at, a point clear of the runway - [ILS Cat 1, 2/3](#) etc).

Listen carefully to the instruction. If unsure - ASK.

Disclaimer

© **European Organisation for Safety of Air Navigation (EUROCONTROL)** January 2005. This alert is published by EUROCONTROL for information purposes. It may be copied in whole or in part, provided that EUROCONTROL is mentioned as the source and to the extent justified by the non-commercial use (not for sale). The information in this document may not be modified without prior written permission from EUROCONTROL. The use of the document is at the user's sole risk and responsibility. EUROCONTROL expressly disclaim any and all warranties with respect to any content within the alert, express or implied.

Categories: [Operational Issues](#) | [Safety Alert](#) | [Safety Warning Message](#)

Article Information	
Category:	Safety Alerts 
Content source:	EUROCONTROL Safety Alerts 
Content control:	EUROCONTROL 

navigation

- Home page
- Operational issues
- Human performance
- Enhancing safety
- Safety regulations
- Accidents and incidents
- Aircraft Types
- Airport Directory
- OGHFA
- Organisations
- Bookshelf
- Publications
- ICAO FSIX

work in progress

- Draft articles
- Request an article

information

- About SKYbrary
- Contact us
- Help
- Who is who
- Glossary

toolbox

- What links here
- Special pages
- Printable version
- Permanent link

If you wish to contribute or participate in the discussions about articles you are invited to [join SKYbrary](#) as a registered user

Holding Position at Runway/Runway Intersection

Categories: Operational Issues | Safety Alert | Safety Reminder Message

Safety Reminder Message

Holding Position at Runway/Runway Intersection

Date: 29 November 2006

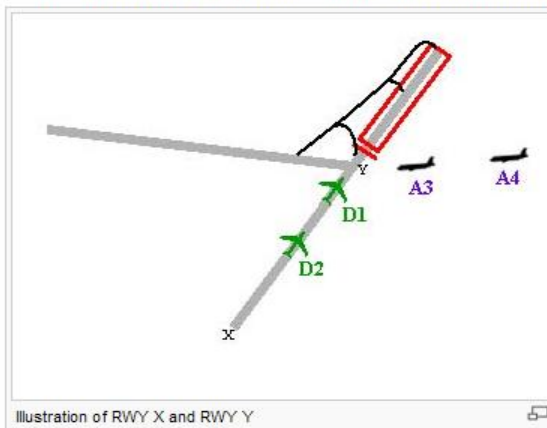


Purpose

- Awareness pertaining to the requirement for the consistent application of the ICAO Annex 14 Standards for the marking of Runway Holding Positions.
- Additional awareness that, where a runway which includes at least one runway/runway intersection is used for taxiing purposes, the standards for the marking of that runway to indicate runway holding position(s) with respect to the other runway, are described in Annex 14. Where such markings are not applied, ATC must be made fully aware that aircraft/vehicles may not be instructed to hold short of the runway in question.

What we have been Informed by European ANSP

- "Runway X crosses the threshold of runway Y. The last 1500 metres of runway X was closed for work in progress. The end of the available runway length of runway X, a few metres north of the threshold of runway Y, was marked with red obstacle lights. Runway Y was used for both landings and departures. It was after dawn.



Article Information

Category: Safety Alerts



Content source: EUROCONTROL Safety Alerts



Content control: EUROCONTROL



Safety Reminder Message – Feb 2011

Google Custom Search

Search

navigation

- Home page
- Operational issues
- Human performance
- Enhancing safety
- Safety regulations
- Accidents and incidents
- Aircraft Types
- Airport Directory
- OGHFA
- Organisations
- Bookshelf
- Publications
- ICAO FSIX

work in progress

- Draft articles
- Request an article

information

- About SKYbrary
- Contact us
- Help
- Who is who
- Glossary

toolbox

- What links here
- Special pages
- Printable version
- Permanent link

If you wish to contribute or participate in the discussions about articles you are invited to [join SKYbrary](#) as a registered user

Runway Incursion Prevention - Runway-holding Position, Stop Bars and ATC Clearance

Categories: [Operational Issues](#) | [Safety Alert](#) | [Safety Reminder Message](#)

Safety Reminder Message

Runway Incursion Prevention - Runway-holding Position, Stop Bars and ATC Clearance

Date: 03 February 2011



Synopsis

EUROCONTROL has been notified of incidents of aircraft crossing runway-holding positions and associated stop bars, which had been switched off, and then entering the runway **without** a valid ATC clearance. In some instances pilots report of inconsistent local policies on the use of stop bars (e.g. low visibility ops only, H24 operation on some runways, at some airports, in some States), which, in their opinion, contributed to confusion or to an assumed ATC clearance to proceed.

ICAO PROVISIONS

- ICAO Annex 2, Rules of the Air,
 - 3.2.2.7.2: "An aircraft taxiing on the manoeuvring area shall stop and hold at all runway-holding positions unless otherwise authorized by the aerodrome control tower."
 - 3.2.2.7.3: "An aircraft taxiing on the manoeuvring area shall stop and hold at all lighted stop bars and may proceed further when the lights are switched off."
- ICAO Annex 14, Aerodromes:
 - 5.3.19.3 (Note 1): "A stop bar is switched on to indicate that traffic stop and switched off to indicate that traffic proceed."
- ICAO Doc 4444, PANS ATM:
 - Definitions - Runway-holding position: "A designated position intended to protect a runway, an obstacle limitation surface, or an ILS/MLS critical/sensitive area at which taxiing aircraft and vehicles shall stop and hold, unless otherwise authorised by the aerodrome control tower."
 - 7.15.6 Taxiway lighting: "Note: Taxiway lighting includes such lights as edge lights, centre line lights, stop bars and clearance bars. Where required to provide taxi guidance, taxiway lighting shall be turned on in such order that a continuous indication of the taxi path is presented to taxiing aircraft. Taxiway lighting or any portion thereof may be turned off when no longer needed."
 - 7.15.7 Stop bars: "Stop bars shall be switched on to indicate that all traffic shall stop and switched off to indicate that traffic may proceed."
- ICAO Doc 9870, Manual on the Prevention of Runway Incursions
 - Rec 4.3.2 (Aircraft Operators): "A requirement to obtain an explicit clearance to cross any runway should be included in the flight deck procedures. This includes runways not in use."
 - Rec 4.5.6 (ANSP): "It should be ensured that ATC procedures contain a requirement to issue an explicit clearance including the runway designator when authorising a runway crossing or to hold short of any runway. This includes runways not in use."
 - (Best Practice for Taxi) 6.3.7: "When a clearance to taxi to a point beyond a runway is received, it must include the authorization to cross that runway. A runway should never be crossed unless an explicit ATC clearance has been received."

Article Information

Category: Safety Alerts

Content source: EUROCONTROL Safety Alerts

Content control: EUROCONTROL



Contact us...



SKYbrary

www.skybrary.aero

http://www.skybrary.aero/index.php/Contact_editor

SKYbrary – Safety Alerts

http://www.skybrary.aero/index.php/Portal:EUROCONTROL_Safety_Alerts

Overall safety management aspects

antonio.licu@eurocontrol.int

www.eurocontrol.int/safety

www.eurocontrol.int/esp

SKYbrary Overview

The End

***Thank you very much for your attention
and patience!***

