Looking to Fly in All the Wrong Places – Sanctioned Countries and Hazardous Airspace

Tuesday, March 22nd | 1:00 p.m. – 2:00 p.m.

PRESENTED BY:
Steve Thorpe – Merck Sharp & Dohme Corp. / Session Coordinator
Guy Gribble – International Flight Resources, LLC
Gordon Macari – Jetex
International Operators Conference | San Diego, CA | March 21 – 24, 2016
Sanctioned Countries

OR... Where to Find Out, Where Not to Go

Tuesday, 22 March, 2016 | 1300-1400L

PRESENTED BY:
Guy D. Gribble, General Manager
International Flight Resources, LLC
Prohibited Area

FAA... Airspace designated under Part 73 within which no person may operate an aircraft without the permission of the using agency.

ICAO... Airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited.

Common examples:

Political leader’s residences, nuclear power plants and critical infrastructures like dams, bridges and seaports.
Restricted Area

FAA... Airspace designated under Part 73 within which the flight of aircraft, while not wholly prohibited, is subject to restriction.

ICAO... Airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions.

Examples of these areas are cultural landmarks, natural disaster areas and some large public gatherings. The significance difference between Prohibited and Restricted is that the permitted entry and operation inside restricted is easier to obtain.
Danger Area

The ICAO defines...
“An airspace of defined dimensions within which activities dangerous to the flight of aircraft may exist at specified times” This is a broad-brush definition and can include whatever the issuing state defines as a danger. Common areas are military training routes/areas, live fire missile ranges, pistol/rifle ranges for military or police.

FAA does not have a definition for “Danger Area”, But...
✓ Military Training Routes
✓ Military Operations Areas
✓ Controlled Firing Areas
✓ Warning Areas
✓ Temporary Flight Restrictions
ICAO Articles and Annexes

Article 1
"The contracting States recognize that every State has complete and exclusive sovereignty over the airspace above its territory."

Article 9
"Each contracting State may, for reasons of military necessity or public safety, restrict or prohibit uniformly the aircraft of other States from flying over certain areas of its territory"

Annex 15, Chapter 5
"Establishment or discontinuance (including activation or deactivation) as applicable, or changes in the status of prohibited, restricted or danger areas"
Crowd Source Question #1

Who makes the aviation rules when >12nm OR cross an international border?

A. FAA, only and always
B. ICAO, only and always
C. >12nm = ICAO Annex 2
D. Inside the other country's border = that country
E. Inside the other country's border = that country and FAA
Crowd Source Question

Who makes the rules when >12nm OR cross an international border?

A. FAA, only and always
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E. Inside the other country's border = that country and FAA

14 CFR 91.703
World Conflict Maps

• Where is the information coming from?

• How current is the data?

• What is the criteria for inclusion?
  – War, Conflict, Disease, Terrorism... all the above?

• Political or regional lines?

• Application to aviation and/or ground operations?
ICAO Notifications
Conflict Zone Information Repository

• Centralized location
• State published information of recognized risks to civil aircraft
ICAO Notifications

Conflict Zone Information Repository

Select a state to view all posts affecting its territory or choose ALL POSTS to see all posts:

Click on a row below to display more information on the conflict zone post.

<table>
<thead>
<tr>
<th>State Affected</th>
<th>Reporting State</th>
<th>Information Source Type</th>
<th>Information Title</th>
<th>Valid From</th>
<th>Valid To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghan</td>
<td>United Kingdom</td>
<td>NOTAM</td>
<td>Hazardous situation in Afghanistan</td>
<td>2016-01-04</td>
<td>2016-03-03</td>
</tr>
</tbody>
</table>
EASA Notifications

Information on Conflict Zones

Since the tragic event of the downing of Malaysian Airlines flight MH17 there is a general consensus that States shall share their information about possible risks in conflict zones. Numerous initiatives have been taken to inform the airlines about the risks on their international flights. At global level, ICAO has launched since April 2015 a central repository where each State can notify on a voluntary basis its information about a particular risk in a conflict zone.

Publication of EASA Safety Information Bulletins (SIB) regarding Risks in Conflict Zones (RCZ)

A SIB is a bulletin which can convey information and recommendations applicable to National Aviation Authorities, Aircraft Operators, or other organisations. EASA is issuing SIBs that draw attention to the operational recommendations issued by other States, in order to ensure a wide dissemination of this information in Europe.

All SIBs are published on EASA - Safety Information Bulletin, including RCZ SIBs. The list of RCZ SIBs is further compiled in the below table.
<table>
<thead>
<tr>
<th>Number</th>
<th>Issued by</th>
<th>Issue date</th>
<th>Subject</th>
<th>Approval Holder / Type Designation</th>
<th>Effective date</th>
<th>Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASA-2016-01</td>
<td>CA</td>
<td>2016-01-25</td>
<td>Pratt &amp; Whitney Canada PTSA-64 and 66D Engines – Oil Discoloration associated with Carbon Particles</td>
<td>Safety Information Bulletin Airworthiness</td>
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<td>318 kb</td>
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<td>NF-16-01R1</td>
<td>CA</td>
<td>2016-01-15</td>
<td>Pratt &amp; Whitney PW4000 Engines – Low Pressure Turbine 4th Stage Vane Cluster</td>
<td>Safety Information Bulletin Airworthiness</td>
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<td>34 kb</td>
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<td>2016-01</td>
<td>EU</td>
<td>2016-01-13</td>
<td>Improved Oil Fill: Door Latches on IAE V2500 Engines</td>
<td>Safety Information Bulletin Airworthiness</td>
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<td>327 kb</td>
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<tr>
<td>2014-24R2</td>
<td>EU</td>
<td>2015-12-23</td>
<td>Iraqi Airspace</td>
<td>Safety Information Bulletin Operations</td>
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<td>752 kb</td>
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</tbody>
</table>
State (Country) Notifications
Aeronautical Information Publication. Enroute, Section 5

• 5.1, Prohibited, Restricted and Danger
• 5.2, Military Exercises and Training Areas
• 5.3, Other Activities of a Dangerous Nature

Aeronautical Information Circulars
NOTAMS
### ENR 5 NAVIGATION WARNINGS

#### ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS

<table>
<thead>
<tr>
<th>Identification and Name</th>
<th>Upper Limit</th>
<th>Lower Limit</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lateral Limits</td>
<td></td>
<td></td>
<td>(time of activity, type of restriction, nature of hazard, risk of interception)</td>
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</tbody>
</table>

#### ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS

<table>
<thead>
<tr>
<th>Name</th>
<th>Lateral Limits</th>
<th>Upper - lower Limit System/means of announcement/information for Civil Flights</th>
<th>Remarks and time of activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

#### ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE

1. OTHER ACTIVITIES OF A DANGEROUS NATURE

<table>
<thead>
<tr>
<th>Name</th>
<th>Lateral Limits</th>
<th>Vertical Limits</th>
<th>Advisory Measures</th>
<th>Authority responsible for information</th>
<th>Remarks</th>
<th>Activity times</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### Notes
- A DVD, published in accordance with the European Union (European Aviation Safety Agency) (EASA) on the AIP Package (AIP) - Charges, produced by the National Air Traffic Services Limited, is available on the EASA website: www.easa.org.uk.
- The AIP structure conforms to the ICAO ENR Part 5 format.
State (Country) Notifications
Aeronautical Information Publication. Enroute, Section 5

• 5.1, Prohibited, Restricted and Danger
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Aeronautical Information Circulars
NOTAMs
AIP CANADA (ICAO) SUPPLEMENT 4/16

FOUR BLASTING AREAS—WIVENHOE, MANITOBA

(Replaces AIP Supplement 64/14)

Four blasting areas will be in use near Wivenhoe, Manitoba (MB). The maximum height is 4,921 feet above ground level (AGL) or 5,413 feet above sea level (ASL), including the shock wave.

The four blasting areas will be located at the following coordinates:

- 56° 21' 26.60" N 95° 12' 49.01" W Blast radius 3,281 feet
- 56° 21' 03.81" N 95° 13' 11.08" W Blast radius 3,281 feet
- 56° 20' 56.49" N 95° 12' 03.00" W Blast radius 3,281 feet
- 56° 20' 06.60" N 95° 12' 47.10" W Blast radius 3,281 feet

The four blasting areas are approximately 17 nautical miles (NM) west (W) of Gillam Airport (CYGX). Details of any procedure changes implemented due to this blasting activity will be promulgated via NOTAM, publication amendment, or both.

For further information, contact

NAV CANADA
1861 Tom Roberts Avenue
P.O. Box 8954, Station T
TP 1820E

DESIGNATED AIRSPACE HANDBOOK

(Aussi disponible en français)

PUBLISHED UNDER THE AUTHORITY OF THE MINISTER OF TRANSPORT

ISSUE NO 254
EFFECTIVE 0901Z 4 FEBRUARY 2016

(Next Issue: 31 MARCH 2016)

SOURCE OF CANADIAN CIVIL AERONAUTICAL DATA: NAV CANADA
US Federal Notifications
Executive Order, POTUS

US Treasury Department
Office of Foreign Assets Control, OFAC

Administers and enforces economic and trade sanctions comprehensively embargoed countries: Crimea Region of Ukraine, Cuba, Iran, North Korea, Sudan, Syria
Crowd Source Question #2

What "Hot Spot" do you expect your operation to fly to next?

A. Crimea Region of Ukraine
B. Cuba
C. Iran
D. North Korea
E. Sudan
F. Syria
G. None, never!
US Federal Notifications

US Department of State

Travel Warnings/Alerts

Warnings: Unstable government, civil war, ongoing intense crime or violence

Alerts: An election season that is bound to have many strikes, demonstrations, or disturbances; a health alert like an outbreak of H1N1
US Federal Notifications

US Department of Commerce
Bureau of Industry and Security Export Administration Regulation, EAR

Export control and treaty compliance system, restrictions on entities in: China, Canada, Germany, Iran, India, Israel, Pakistan, Russia, Egypt, Malaysia, Hong Kong, Kuwait, Lebanon, Singapore, South Korea, Syria, United Arab Emirates the United Kingdom.
Sale, export, and re-transfer of defense articles and defense services...
The list of prohibited countries is pretty long: Afghanistan, Belarus, Central African Republic, Cuba, Cyprus, Eritrea, Fiji, Iran, Iraq, Cote d'Ivoire, Lebanon, Libya, North Korea, Syria, Vietnam, Myanmar, China, Haiti, Liberia, Rwanda, Somalia, Sri Lanka, Republic of the Sudan (Northern Sudan), Yemen, Zimbabwe, Venezuela, Democratic Republic of the Congo.
FAA Notifications
Combined Federal Regulations, CFR
• Part 93 Special Air Traffic Rules
FAA Notifications

Special Federal Air Regulations, SFAR

• Focused on a unique situation
• Limited length of WIE
• The SFAR # is sequential
• ICAO does not use this definition
INTERNATIONAL NOTICES TO AIRMEN

SECTION I
Flight Prohibitions, Potentially Hostile Situations, and Foreign Notices

Introduction: This part contains FAA-issued flight prohibitions for countries and territories outside the United States, advisory notices on potentially hostile situations abroad, and notices issued by foreign governments and civil aviation authorities.


All operators also should check the latest U.S. Department of State Travel Warnings and Public Announcements at http://travel.state.gov, and can obtain additional information by contacting the relevant government authorities.
FAA Notifications

FDC NOTAMS

- Issued by the National Flight Data Center
- Regulatory in nature
- Amendments to published IAPs, aeronautical charts
- Temporary flight restrictions, TFR's caused by such things as natural disasters or large-scale public events that may generate congestion of air traffic over a site.
**FAA Notifications**

"KICZ" NOTAMS

- NOTAMs for a Special Federal Aviation Regulation (SFAR)
- "ZZZ" Phasing out, November 16, 2016
- Advisory or Prohibition

<table>
<thead>
<tr>
<th>KICZ</th>
<th>INTERNATIONAL CONFLICT ZONE</th>
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<tbody>
<tr>
<td>Data Current as of: Tue, 16 Feb 2016 14:47:00 UTC</td>
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</table>

<table>
<thead>
<tr>
<th>Check All</th>
<th>KICZ</th>
<th>UnCheck All KICZ</th>
</tr>
</thead>
</table>
FAA Notifications

Operations Specification/LOA, B450

- The FAA maintains a list of potentially hostile situations
- Communicates vital and time sensitive safety information to Ops listed
- Tracks what sensitive countries an operator operates into or overflies
- B450 is mandatory for the areas of operation identified as sensitive international areas authorized in the operator’s B050
- B450 is applicable to 14 CFR parts 121, 125, 135, 91 and 91K

NOTICE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

National Policy
Effective Date: 6/3/15
Cancellation Date: 6/3/16

SUBJ: Utilization and Maintenance of OpSpec/MSpec/LOA B450

1. Purpose of This Notice. This notice provides guidance to principal operations inspectors (POI) on the importance of properly maintaining their Operations Specification (OpSpec)/Management Specification (MSpec)/Letter of Authorization (LOA) B450, Sensitive International Areas.
World Conflict Maps
Council on Foreign Relations

Nobelprize.org
http://www.nobelprize.org/educational/peace/conflictmap/conflictmap.html

Crisis Watch
http://crisisgroup.be/maps/crisiswatch/

Aviation Week, Defense & Security Conflict Map
http://awin.aviationweek.com/Portals/aweek/media/adconflictmap/ad1.html
International Web Links:

ICAO Conflict Zone Information Repository
http://www.icao.int/czir/Pages/default.aspx

EASA Airworthiness Directives
http://ad.easa.europa.eu/sib-docs/page-

EASA Information on Conflict Zones

Individual Aeronautical Information Publications
http://www.eurocontrol.int/articles/ais-online
US Federal Agencies

US Department of State, Travel Warnings/Alerts
https://travel.state.gov/content/passports/en/alertswarnings.html

US Treasury Department, Office of Foreign Assets Control, OFAC ("Resources" Tab)
https://www.treasury.gov/about/organizational-structure/offices/Pages/Office-of-Foreign-Assets-Control.aspx

US Department of Commerce, Bureau of Industry and Security
Export Administration Regulation, EAR
https://www.bis.doc.gov/index.php/regulations/export-administration-regulations-ear

US Department of State, Directorate of Defense Trade Controls
The International Traffic in Arms Regulations, ITAR
https://www.pmddtc.state.gov/regulations_laws/itar.html
FAA Web Links:

Part 91 SFARs
http://www.ecfr.gov/cgi-bin/text-idx?SID=e3f25b73987c4da90f5bca19ef55be19&mc=true&tpl=/ecfrbrowse/Title14/14cfr91_ain_02.tpl

Notices To Airmen (Section 3 International Notices)
https://www.faa.gov/air_traffic/publications/notices/

Order 8900 (ASI Inspector's Handbook) Volume 3, Chapter 18, Section 4 Operations Specification, B-050 and B450
http://fsims.faa.gov/PICResults.aspx?mode=EBookContents&restricttocategory=all~menu
Sanctioned Countries

OR... Where to Find Out, Where Not to Go

Mr. Guy Gribble
Guy D. Gribble, General Manager
www.InternationalFlightResources.com
Guy@InternationalFlightResources.com