

39th

TRIENNIAL ASSEMBLY

TECHNICAL COMMISSION

DAY 1 29 SEP 2016



TRIENNIAL ASSEMBLY

ANNUAL REPORTS OF THE COUNCIL

(2013, 2014, 2015)

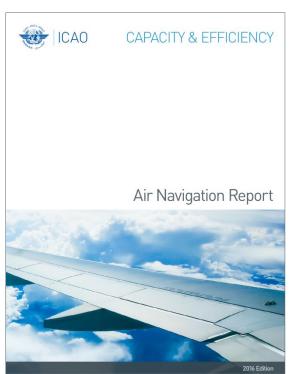
ITEM 32



Safety & Air Navigation

GLOBAL STATUS













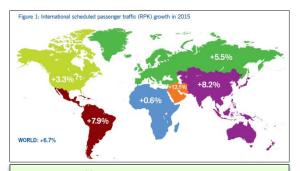


Uptick in fatalities in 2014, but went back down in 2015

Table 1: Departures, accidents and fatalities by RASG region					
RASG	Estimated Departures (in millions)	Number of accidents	Accident rate (per million departures)	Fatal accidents	Fatalities
AFI	0.8	6	7.3	0	0
APAC	9.8	24	2.5	3	98
EUR	8.1	24	3.0	1	150
MID	1.2	3	2.5	1	224
PA	13	34	2.6	1	2
WORLD	33	92	2.8	6	474
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Regional accident rates remain low

State of Global Air Navigation



Traffic grew by 6.7% in 2015





Only 35% of States are meeting the 2016 Target for A37-11



60% of all instrument runways have at least one PBN approach

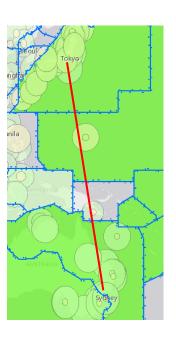
Safety & Air Navigation

KEY ISSUES



Global Tracking Updates

- **Normal Tracking SARPs Adopted**
 - Complementary, Risk-based SARPs SL circulated
 - Abnormal event guidance under development
- Autonomous Distress Tracking SARPs Adopted
 - Work underway to identify and develop PANS procedures
- **Data Recovery SARPs Adopted**
 - Guidance material under development



Conflict Zones

- **2014 Senior-Level Task Force** on Risk to Civil Aviation arising from Conflict Zones (TF-RCZ) developed 12 item work programme.
- 2015 Development of the Conflict Zone Information Repository (CZIR) for an initial one year evaluation period starting 2 Aprils 2015.
- **2016 Report of the (CZIR) Repository Review** group's recommendation for the future operation of the repository considering the experiences by States during the one year evaluation period.
- 2016 Secretariat studies and explores improvements for the future operation of the Conflict Zone Information Repository.

Conflict Zones

Other ICAO achievements resulting from the 12 item TF-RCZ work programme:

- Guidance on Risk Assessment for operation over or near conflict zones
- Review the application of ICAO treaties relating to conflict zones (Meeting on 13 and 14 July 2015)
- Review of existing material on the coordination of Military and Civil flight operations

Public Health Concerns - Ebola

ICAO Actions

- ICAO has signed a MOU with the UNDP on "Operational Aspects of Ebola" Response Multi-Partner Trust Fund"
- ICAO web application for tracking Ebola related NOTAMs (iSTARS/SPACE)
- Action Plan for States and International Organizations to facilitate harmonized implementation of WHO recommendations relevant to the aviation sector;
- ICAO, IATA, ACI, supporting WHO and US CDC to develop several procedures & guidance material on management of EVD in the aviation sector

Planning guide for screening, procedures for aircraft cleaning crew, etc.

Public Health Concerns - Ebola

ICAO Actions

- WHO and ICAO recommended exit screening of passengers, not entry
- ICAO has facilitated the lifting of restrictions on flights by some States
- ICAO has attended the CASSOA Ministerial Meeting on Ebola which resulted in a declaration for States to avoid imposing restrictions on flights
- Joint ICAO/WHO assistance visits to States and international airports undertaken through CAPSCA (www.capsca.org)

Public Health Concerns - Zika



WHO Distribution Map Zika September 2016



Vector Control Register

as part of risk assessment process to inform aircraft disinsection policy decisions

Investigating
non-chemical
disinsection as
additional method or
possible alternative
due to possible
health effects and
resistance concerns
associated with the
use of chemicals

Remotely Piloted Aircraft Systems (RPAS)

RPAS Programme

- Scope International IFR Operations
- In place SARPS on Annexes 2, 7 and 13
- 18 of 19 Annexes affected
- Other UAS outside International IFR Operations



Remotely Piloted Aircraft Systems (RPAS)

- Guidance material
 - ICAO RPAS Manual



ICAO UAS Toolkit





RPAS Activities

RPAS Symposiums

- Montreal, March 2015
- Sweden, May 2016
- Nigeria, April 2017
- Montreal, Sept 2017



RPAS Workshops

- Sweden, May 2016
- Lima, June 2016
- China and Thailand, November 2016
- All Regions by 2017



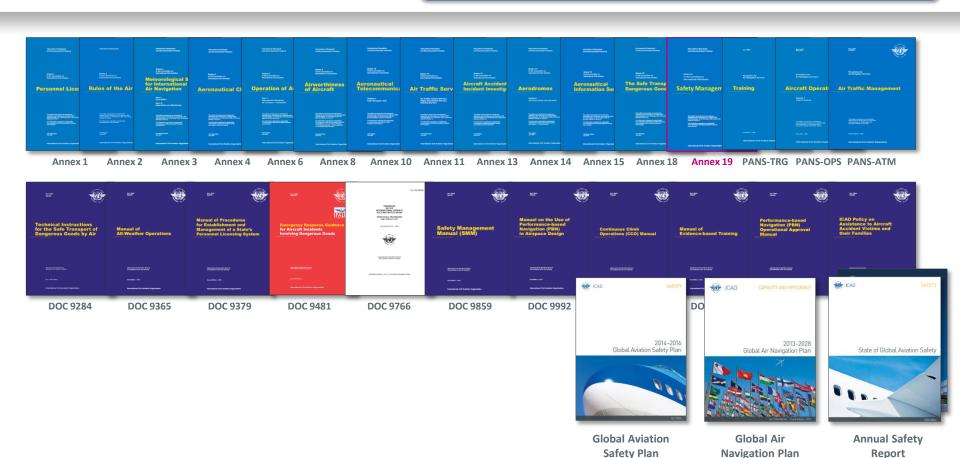
Lithium Batteries

- Prohibition on passenger aircraft
- Additional restrictions on cargo aircraft
- Risk of non-compliance
- Need for transport versus need for safety
- **Solution:**
 - Development of performance-based package standard by SAE
 - Additional operational controls
 - Provisions for effective risk assessments
 - Increased surveillance and improved traceability
- Acceptable mitigation measures in place before lifting prohibition

Cargo compartment fire protection systems unable to suppress or extinguish a fire involving high density lithium batteries



Deliverables during the last Triennium (2013)





Deliverables during the last Triennium (2014)



Annual Safety Report

Annual Air Navigation Report



Deliverables during the last Triennium (2015)





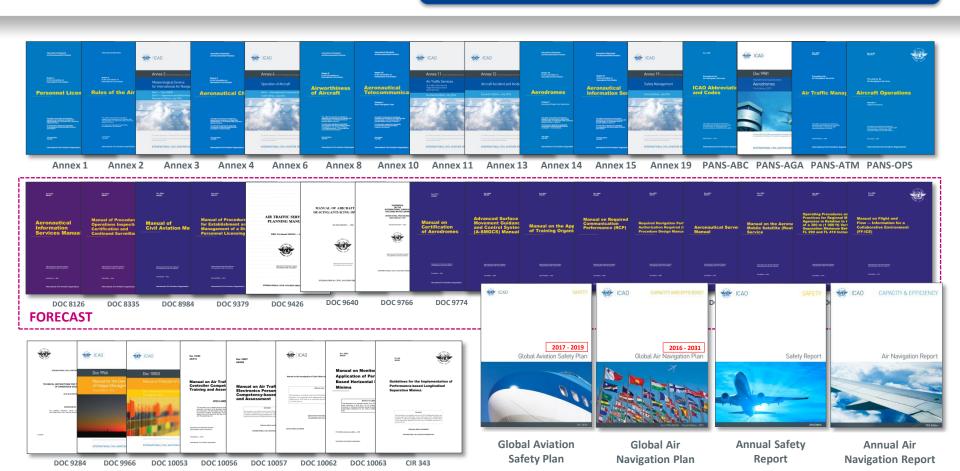


Annual Safety Report

Annual Air Navigation Report



Deliverables during the last Triennium (2016)



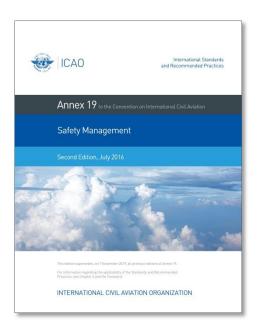
State Safety Programme (SSP) Implementation

Initiatives

- Establishment of ICAO Safety Management Programme;
- Deliverables identified to support SSP implementation;
- State letter AN 8/3-16/89 requests States to consider means to support programme.

USOAP SSP Audits

- ICAO to begin auditing SSP from January 2020 in accordance with criteria in line with the GASP;
- Starting in January 2018, select States will be invited to receive an SSP audit on a voluntary, but non-confidential basis;



Events during the last Triennium (2013, 2014, 2015, 2016)

























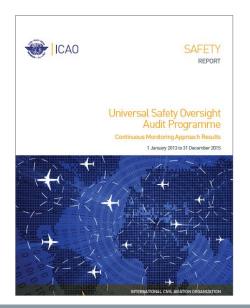


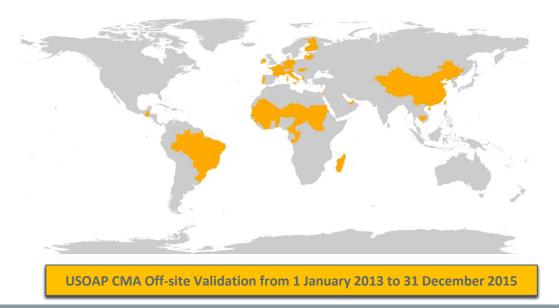






Universal Safety Oversight Audit Programme (USOAP)







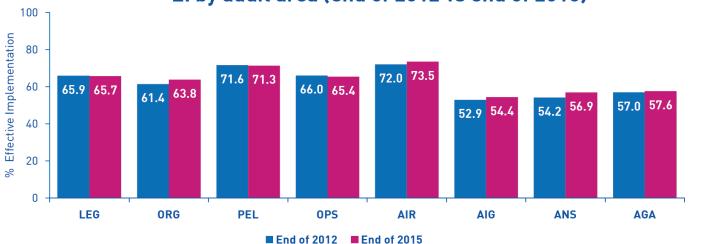


Universal Safety Oversight Audit Programme (USOAP)

USOAP CMA Activity	2013	2014	2015	2016*
USOAP CMA Audits	8	5	10	6
ICAO Coordinated Validation Missions (ICVMs)	20	15	18	11
Off-site Validation Activities	1	15	21	16
Seminar/workshops		12	10	7
Total	36	47	59	40

Current Global Safety Audit Results

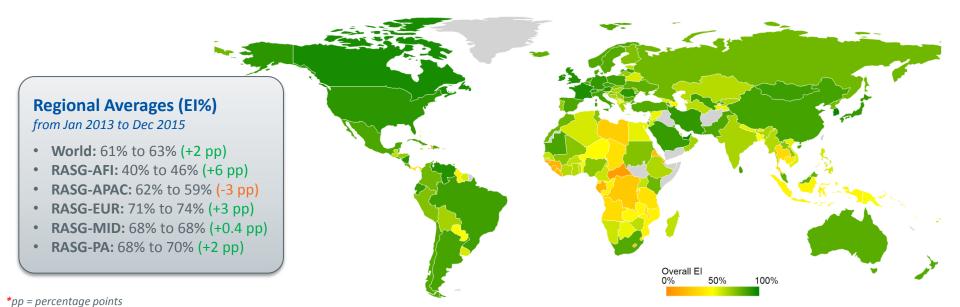






ICAO Safety Audit Results

Effective implementation of safety oversight systems by State







Aviation Tools to Support Implementation







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TRIENNIAL ASSEMBLY

SAF AND AN MONITORING & ANALYSIS

ITEM 33



ITEM 33

Council Papers

WP No.	Title
30	Report on GASP and GANP Implementation priorities, status of implementation, and information on USOAP CMA
31	Report on outcomes of the second High-level Safety Conference (HLSC 2015) and emerging issues

WP/30

GASP & GANP Priorities and USOAP CMA

Provides:

- A report on the status of the objectives and enablers of the 2014-2016 edition of the Global Aviation Safety Plan (GASP).
- A report on the status of the 2013-2028 Global Air Navigation Plan (GANP) priorities.
- An overview of the status and results of the Universal Safety Oversight Audit Programme Continuous Monitoring Approach (USOAP CMA).



High-level Safety Conference (2015)

- Provides the outcomes of the second High-level Safety Conference held in 2015
- Highlights the value of the HLSC outcomes in providing timely input to the development of the budget which is being presented to the Assembly for endorsement.
- The Assembly is invited to:

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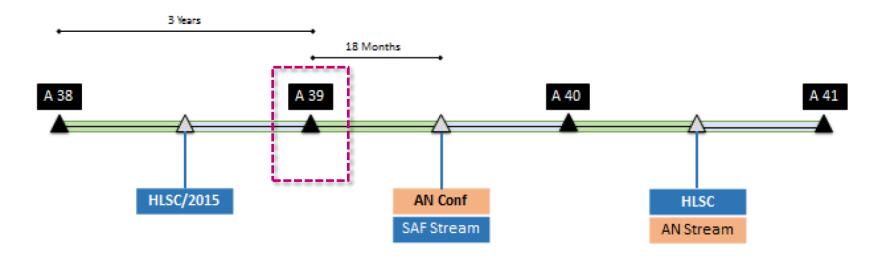
- Note this information
- Consider divisional-type meetings as a formal means to recommend inputs for additional technical work to be undertaken by ICAO for consideration during the budget review and approval process



ICAO

WP/31

Strategic Planning: Assembly and High-level Meetings



Alternating High-level meetings to prepare technical work ahead of budget discussions

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Groups

GROUP 33.1: Aircraft Tracking

GROUP 33.2: RPAS

GROUP 33.3: Conflict Zones

GROUP 33.4: Safety Management

GROUP 33.5: Monitoring and Analysis

GROUP 33.6: Harmonization

GROUP 33.7: Other

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Working Papers

GROUP 33.1: Aircraft Tracking

WP#	Presented by
290	Singapore
168	AFCAC

Information papers provided by: China (WP/274), the United States (WP/269) and the IMSO (WP/394)



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GROUP 33.2: RPAS



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Working Papers

GROUP 33.2: RPAS

WP#	Presented by
439	Brazil
335	China
303	Dominican Republic
281	Japan
103	United States
146	Mexico, supported by 20 Latin-American States
289	Singapore, Malaysia, Marshall Islands, New Zealand, Palau, Papa New Guinea and Solomon Islands
95	Slovakia on behalf of the EU, ECAC and EUROCONTROL (Introduced by Turkey)
116	ACI, CANSO,IATA, ICCAIA, IFALPA, IFATCA, IAOPA

Information papers provided by: Brazil (WP/265), Cuba (WP/454), Indonesia (WP/226), Russian Federation (WP/296 Rev. 1), the United States (WP/82); and Slovakia on behalf of the EU, ECAC and EUROCONTROL (WP/107). A related information paper under Agenda Item 16 was provided by Spain (WP/132).

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Working Papers

GROUP 33.3: Conflict Zones

WP#	Presented by
108 Rev I	Slovakia on behalf of the EU, ECAC and EUROCONTROL; and by Australia and Malaysia (Introduced by Netherlands)
200	CANSO
376	Russian Federation

Information papers provided by: Slovakia on behalf of the EU and its Member States and the other Member States of the ECAC, by EUROCONTROL, Australia and Malaysia (WP/297)

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Working Papers

GROUP 33.4: Safety Management

WP#	Presented by
283	Brazil
342	China
324	Venezuela
359	Venezuela
109	Peru; endorsed by the Countries of the SAM Region and the 22 Member States of the Latin American Civil Aviation Commission (LACAC)
195	CANSO

Information papers provided by: Cuba (WP/362); India (WP/135); Republic of Korea (WP/420); Spain (WP/419); and ASECNA (WP/385)

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