#### Safety Oversight Audit Section

Regional Seminar on the Preparation, Conduct and Reporting of an ICAO Safety Oversight Audit Beijing, China, 12 to 15 December 2006 Overview of the ICAO Universal Safety Oversight Audit Programme (USOAP)

Module 2

# Module objective

At the end of this module the participants will be be familiar with the background, objective, principles, activities, main audit tools and status of implementation of the ICAO Universal Safety Oversight Audit Programme (USOAP).

# Outline

- Background
- Evolution and objective of USOAP
- Programme staffing and activities
- USOAP principles and auditing principles
- Main audit tools
- Status of implementation and results
- Results of the DGCA 06 Conference
- USOAP's future activities

# What is safety oversight?

- Safety oversight is a function by which Contracting States ensure the effective implementation of:
- ICAO Standards and Recommended Practices (SARPs)
- the critical elements of a safety oversight system
- relevant safety practices and procedures

Safety oversight is a State's responsibility

# Two complementary roles





- Develops principles and techniques to be adopted in the Annexes
- Approves regional air navigation plans

 Apply Annex SARPs
 Carry out their safety oversight responsibilities by implementing the eight critical elements
 Implement infrastructure according to regional plans

# Why an ICAO Programme?

- Various reports in the early 1990s on the lack of implementation by States of ICAO SARPs.
- Accidents indicating insufficient safety oversight by States.
- Increased concern over the level of aviation safety world-wide.
- Need to reduce accident rates to offset the rapid increase in traffic.



# **Evolution of the Programme**

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Voluntary Assessment Programme 1995 – 1998 Annexes 1, 6, 8 88 Requests 67 Assessments Annex-by-Annex Approach

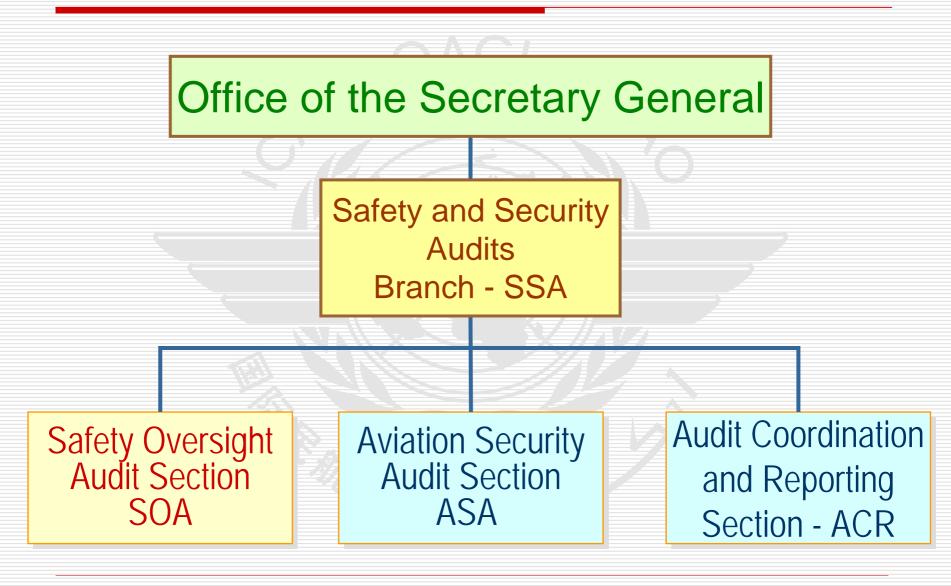
Mandatory Audit Programme (USOAP) A-32/11 1999 - 2004181 Audits 162 Follow-ups Annexes 1, 6, 8 Annex-by-Annex Approach

Comprehensive **Systems** Approach A-35/6 2005 -> Safety-related Provisions in all Safety-related **Annexes** (All except 9 and 17)

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The objective of USOAP is to promote global aviation safety through auditing Contracting States, on a regular basis, to determine States' capability for safety oversight by assessing the effective implementation of the critical elements of a safety oversight system and the status of States' implementation of safety-relevant ICAO Standards and Recommended Practices (SARPs), associated procedures, guidance material and safetyrelated practices.

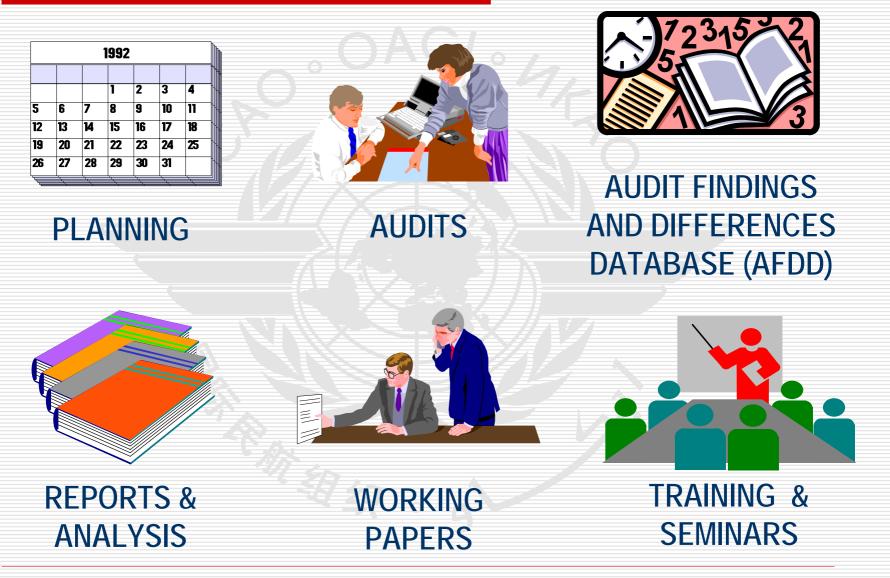
#### Safety and Security Audits Branch (SSA)





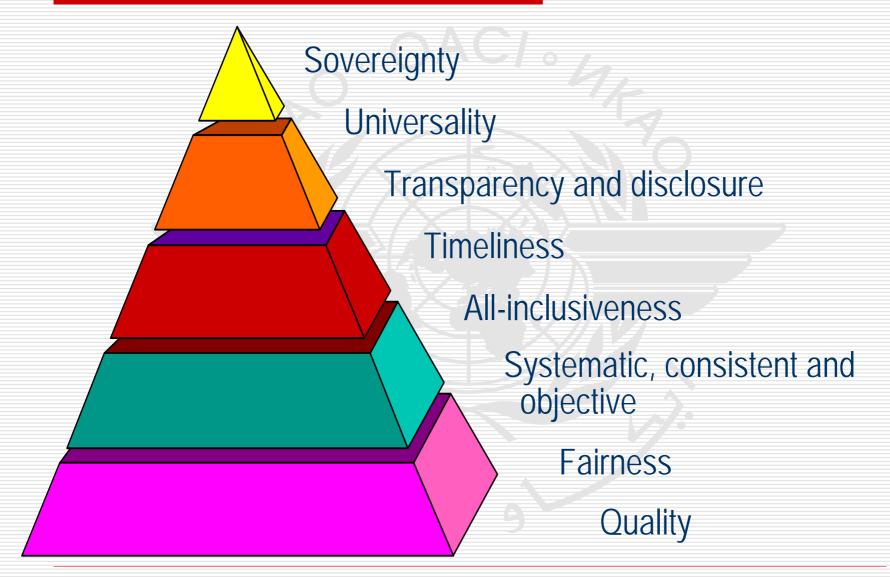


#### **Programme activities**



SOA - November 2006

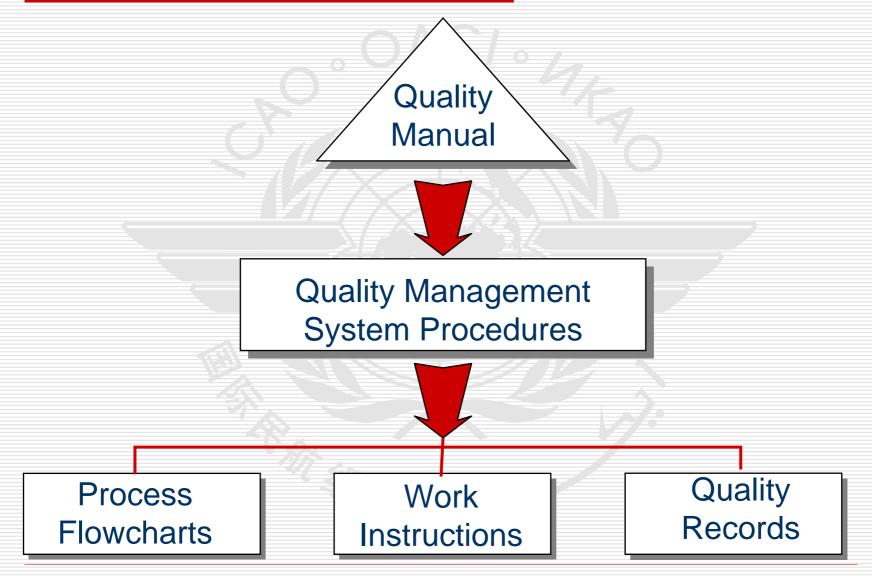
# **USOAP** principles



# ISO certification of SOA

- Demand for external quality assurance
  Aims:
  - Further standardize procedures and processes
  - Increase efficiency and effectiveness
  - Ease the integration of new audit areas
  - Consistently provide product that meets customer requirements.
  - Enhance customer satisfaction
  - Continuous improvement of the system
- SOA was initially certified in October 2002 and re-certified in September 2005.

# SOA Quality Management System



# SOA's customers



The **ISO 19011** International Standard provides guidance on the management of audit programmes, the conduct of internal or external audits of quality and/or environmental management systems, as well as on the competence and evaluation of auditors.

Four of the most important ISO auditing principles have been selected for USOAP purposes.

#### ISO 19011 auditing principles adopted by USOAP

#### Fair presentation

The obligation to report truthfully and accurately

#### Due professional care

The application of diligence and judgement in auditing

#### Independence

The basis to audit with impartiality and objectivity

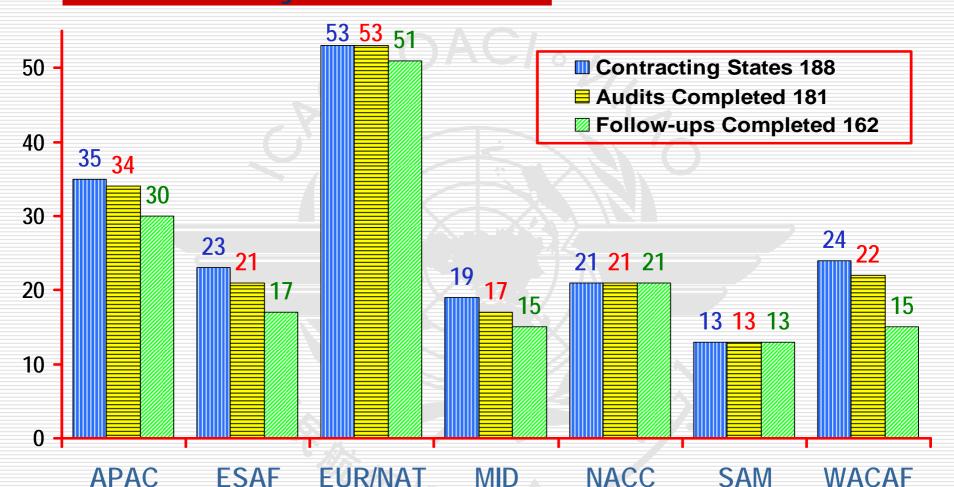
# Evidence-based approach

Systematic audit process to reach reliable conclusions

- State Aviation Activity Questionnaire (SAAQ)
- Compliance Checklists (CCs)
- Audit Protocols
- ICAO documentation and guidance material
- SPO / Team leader checklists



#### Audits and Audit Follow-ups Completed First Audit Cycle – 1999 - 2004

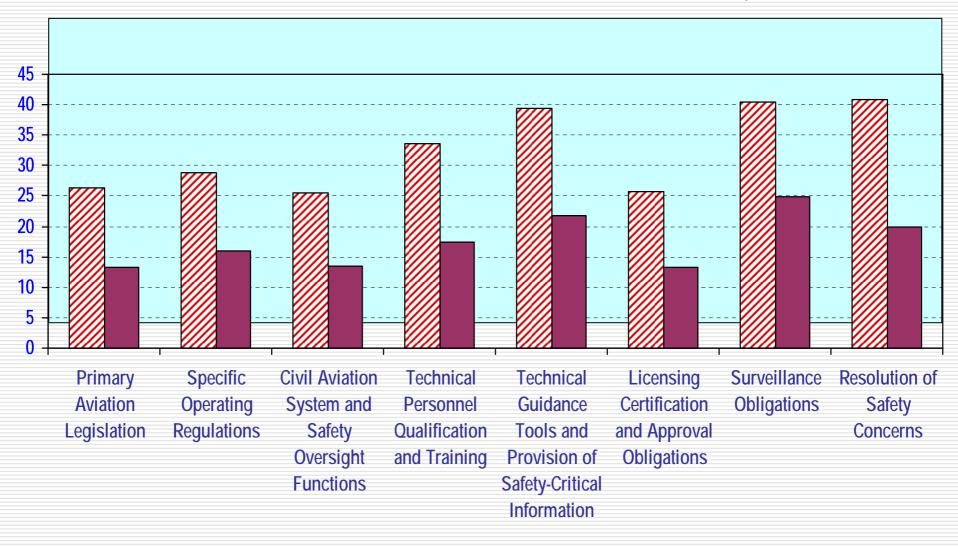


In addition, two Special Administrative Regions of China and three territories were audited at the request of the States concerned

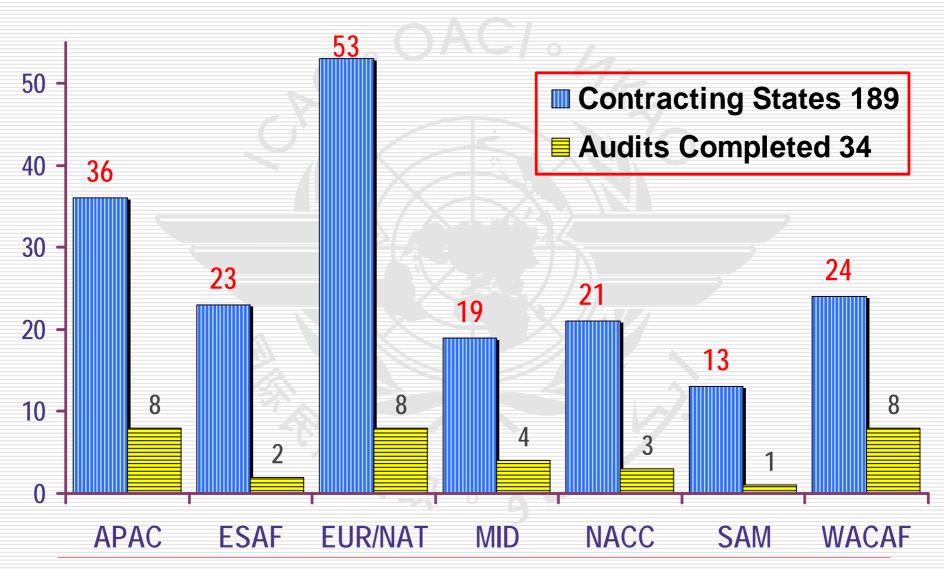
#### Results of the First Audit Cycle (1999 – 2004) Lack of Effective Implementation of the Critical Elements (%)

Global – Audit Phase 32.6%

Global – Follow-up Phase 17.5%



# CSA audits completed as of 30 November 2006



#### Areas of concern identified during CSA audits

- Introduction of SARPs in legal framework
- Incorporation of Annex amendments and notification of differences
- Oversight of delegated tasks
- Establishment of staff qualifications and experience and development of training programmes
- Coordination amongst entities responsible for safety oversight
- Separation of the regulatory and service provision functions

#### Results of the DGCA Conference 2006

- Greater transparency audit information to be made public.
- Procedure to deal in a timely manner with significant safety concerns identified during audits.
- Classification of audit findings under the critical elements.
- Consequential amendments to the MOU on safety oversight audits.

#### Release of audit information to the public

- Information released to the public in the Flight Safety Information Exchange (FSIX) website.
- For audits conducted during the first audit cycle:
  - States were requested to sign a release consent form authorizing ICAO to release either a summary of the audit report and a graph, or the entire report.
  - 24 months for all States to provide consent to ICAO
- □ For audits under the comprehensive systems approach:
  - Graph depicting implementation of the critical elements
  - MOU amended to allow for the release to the public
  - Consent form for States already audited.

Level of Implementation of the Critical Elements of a Safety Oversight System											
CRITICAL ELEMENT	1	1 = Not implemented									
	10	10 = Fully implemented									
	State's level of implementation										
		=			Global average						
	1	2	3	4	5	6	7	8	9	10	
Primary aviation legislation											
Specific Operating Regulations											
State Civil Aviation System and Safety Oversight Functions											
Technical Personnel Qualification and Training											
Technical Guidance, Tools and the Provision of Safety-critical Information											
Licensing, Certification, Authorization and Approval Obligations											
Surveillance Obligations											
Resolution of Safety Concerns											

# Significant safety concerns

A significant safety concern occurs when the audited State allows the holder of an authorization or approval to exercise the privileges attached to it, although the minimum requirements established by the State or by the provisions set forth in the ICAO Annexes are not met, resulting in a immediate safety risk to international civil aviation.

#### Procedure to deal with significant safety concerns

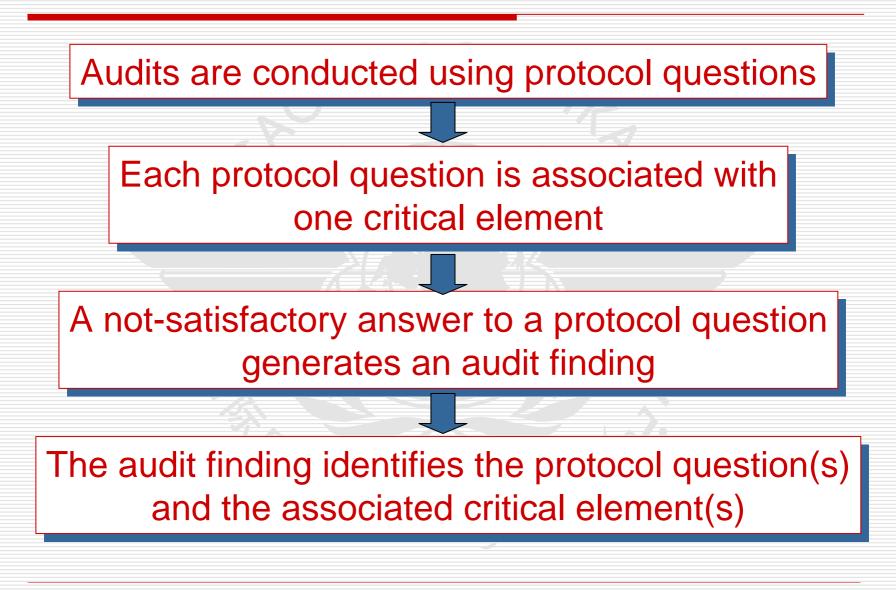
Preliminary significant safety concerns (SCCs) are Described to the State during the audit closing meeting

SCCs are confirmed and validated by SOA (48 to 72 hours. Maximum 15 days)

Official notification of SCCs to the State, including timeframe for corrective action

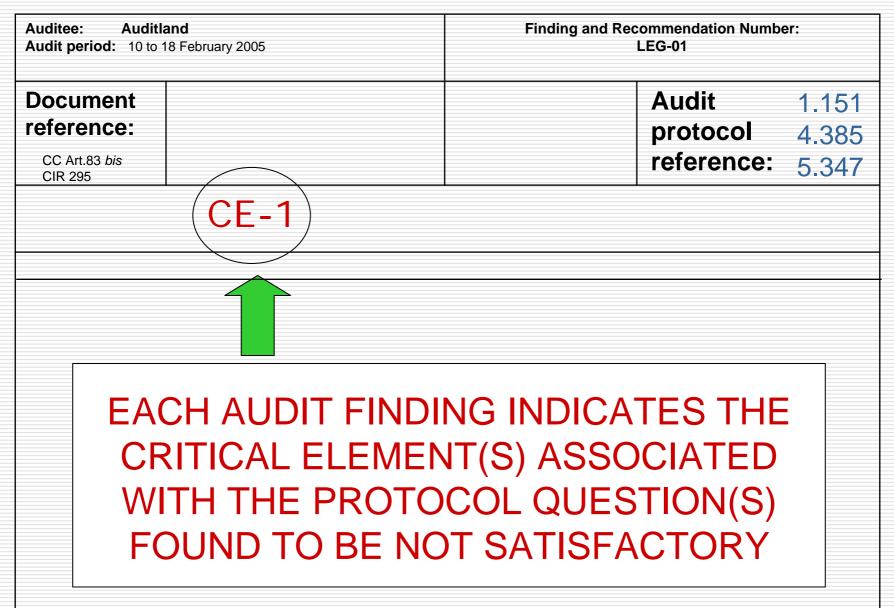
If State fails to respond, the SCC will be posted on the secure website and Council will be advised

#### Classification of audit findings under the critical elements



SOA - November 2006

#### FINDINGS AND RECOMMENDATIONS RELATED TO PRIMARY AVIATION LEGISLATION AND CIVIL AVIATION REGULATIONS



#### USOAP's future activities

- An average of 40 audits per year
- Two seminars per year
- Auditor training courses as required
- Analysis of audit results
- Deployment of selected SOA staff to the regions
- Expansion of the Quality Management System to the entire SSA branch
- Assembly year

#### Review

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# **Thank you!**