



Civil Aviation SSP in China

Present to: COSCAP

By: Cap. Wu Lijun

Director, Office of Aviation Safety, CAAC

Date: May, 2018

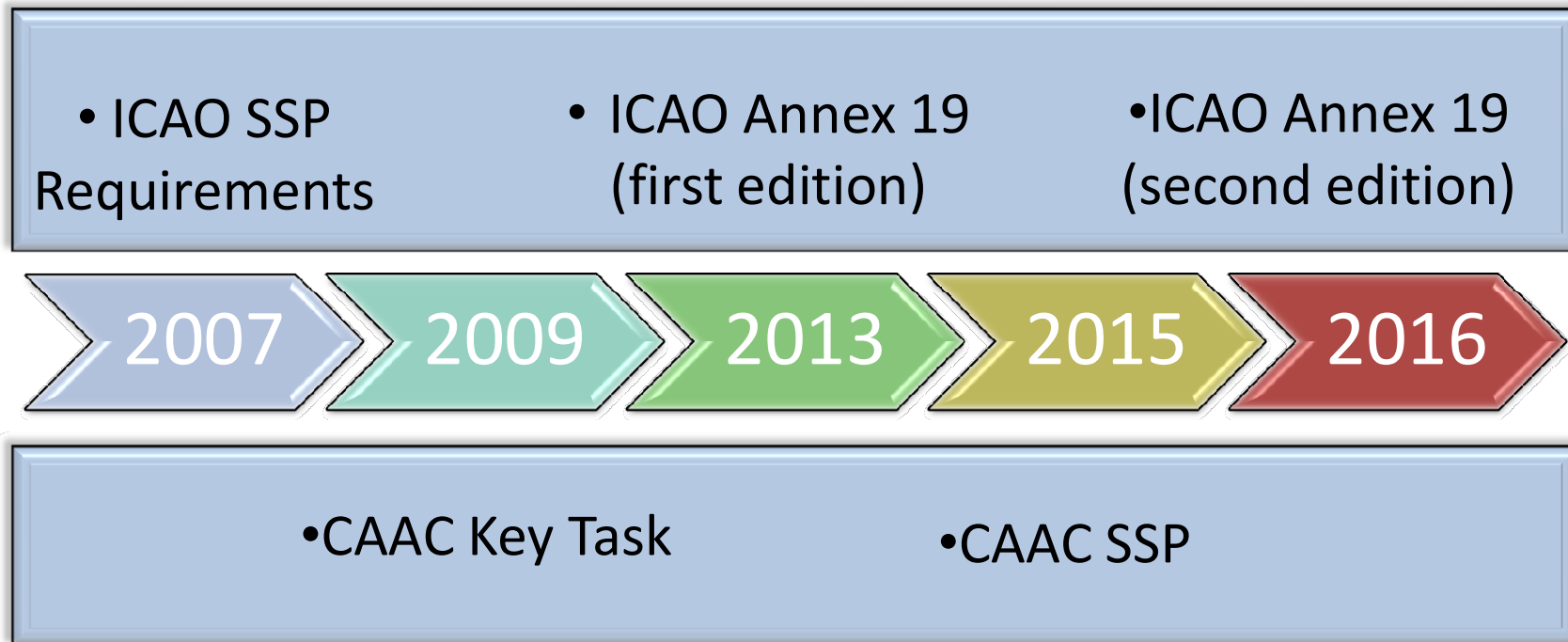


Outline

- The Main Content of CAAC SSP
- The Implementation of CAAC SSP
- Further Actions



The Main Content of CAAC SSP



The Main Content of CAAC SSP

民航局文件

民航发〔2015〕18号

关于印发中国民航航空安全方案的通知

民航各地区管理局,各航空运输(通用)、服务保障公司,各机场公司,局属各单位:

根据国际民航组织(ICAO)的要求和民航局年度安全工作计划,《中国民航航空安全方案》现已编制完成,请各单位结合实际认真落实。



中国民用航空局航空安全办公室
Office of Aviation Safety, CAAC

Framework of CAAC SSP

1.State Safety Policies and Objectives

- (1) State Safety Legislative Framework
- (2) Responsibilities and Accountabilities Related to SSP
- (3) Accident and Incident Investigation
- (4) Enforcement Policy

2.State Aviation Safety Risk Management

- (5) Requirements for Service Provider's SMS
- (6) Agreement on Service Provider's Safety Performance
- (7) Periodically Review of SMS Requirements

3.State Safety Assurance

- (8) Safety Oversight
- (9) Safety Data Collection, Analysis and Exchange
- (10) Safety-Data-Driven Targeting of Oversight of Areas of Greater Concern or Need

4.Safety Promotion

- (11) Internal Training, Communication and Dissemination of Safety Information
- (12) External Training, Communication and Dissemination of Safety Information



1. State Safety Policies and Objectives

1.1 Legislative Framework

1. Law
2. Administrative Rules
3. Regulations
4. Guiding materials
5. CAAC Organizational Structure and Responsibilities
6. Review of Regulations
7. SSP Documents

1.2 Responsibilities and Accountabilities Related to SSP

1. Establishment of SSP
2. Responsibilities and Resources Related to SSP
3. Coordination Organizations Related to SSP
4. Safety Policy
5. Acceptable Level of Safety Performance of SSP
6. Improvement and Review of SSP

1.3 Accident and Incident Investigation

1.4 Enforcement Policy



2. State Aviation Safety Risk Management

2.1 Requirements for Service Provider's SMS

2.2 Agreement on Service Provider's Safety
Performance

2.3 Periodically Review of SMS Requirements



3. State Safety Assurance

3.1 Safety Oversight

3.2 Safety Data Collection, Analysis and
Exchange

3.3 Safety-Data-Driven Oversight Targeting
Areas of Greater Concern or Need



3.1 Safety Oversight

Operation Certification Regular Supervision

- Inspections/audits/surveys
- Legislation/licensing
- (Supplementary) certification
-

Safety Performance Oversight

- Safety Audit;
- SMS Assessment ;
- Accident/Incident investigation ;
- Safety Information Analysis



Outline

- The Main Content of CAAC SSP
- The Implementation of CAAC SSP
- Further Actions



The Implementation of CAAC SSP

- <Rules of Civil Aviation Safety Management>
- SMS Implement and Assessment
- Safety Performance Management
- CAAC FOQA Station



Rules of Civil Aviation Safety Management



名称: 民用航空安全管理规定 (中华人民共和国交通运输部令2018年第3号)

文号: 交通运输部令2018年第3号

发布机构: 交通运输部

发文日期: 2018年03月12日

主题分类: 交通运输部部门规章

索引号: 2018-00237

主题词: 交通运输部令; 民用航空; 安全管理

民用航空安全管理规定 (中华人民共和国交通运输部令2018年第3号)

《民用航空安全管理规定》已于2018年2月11日经第2次部务会议通过, 现予公布, 自2018年3月16日起施行。

部长 李小鹏

2018年2月13日



中国民用航空局航空安全办公室
Office of Aviation Safety, CAAC

Rules of Civil Aviation Safety Management

- General
- Safety management requirements
- Use of safety data and information
- Safety oversight
- Legal liabilities
- Supplementary provisions



The Implementation of CAAC SSP

- <Rules of Civil Aviation Safety Management>
- SMS Implement and Assessment
- Safety Performance Management
- CAAC FOQA Station



SMS Implement and Assessment

- ❑ CAAC has mandated the requirement for the following civil aviation service providers to implement SMS:
 - Aircraft operators (CCAR-121)
 - Maintenance organizations (CCAR-145)
 - Air traffic control organizations (CCAR-83)
 - Aerodromes (CCAR-140)
 - Flight training school (CCAR-140)

- ❑ other Service providers (CCAR-398)

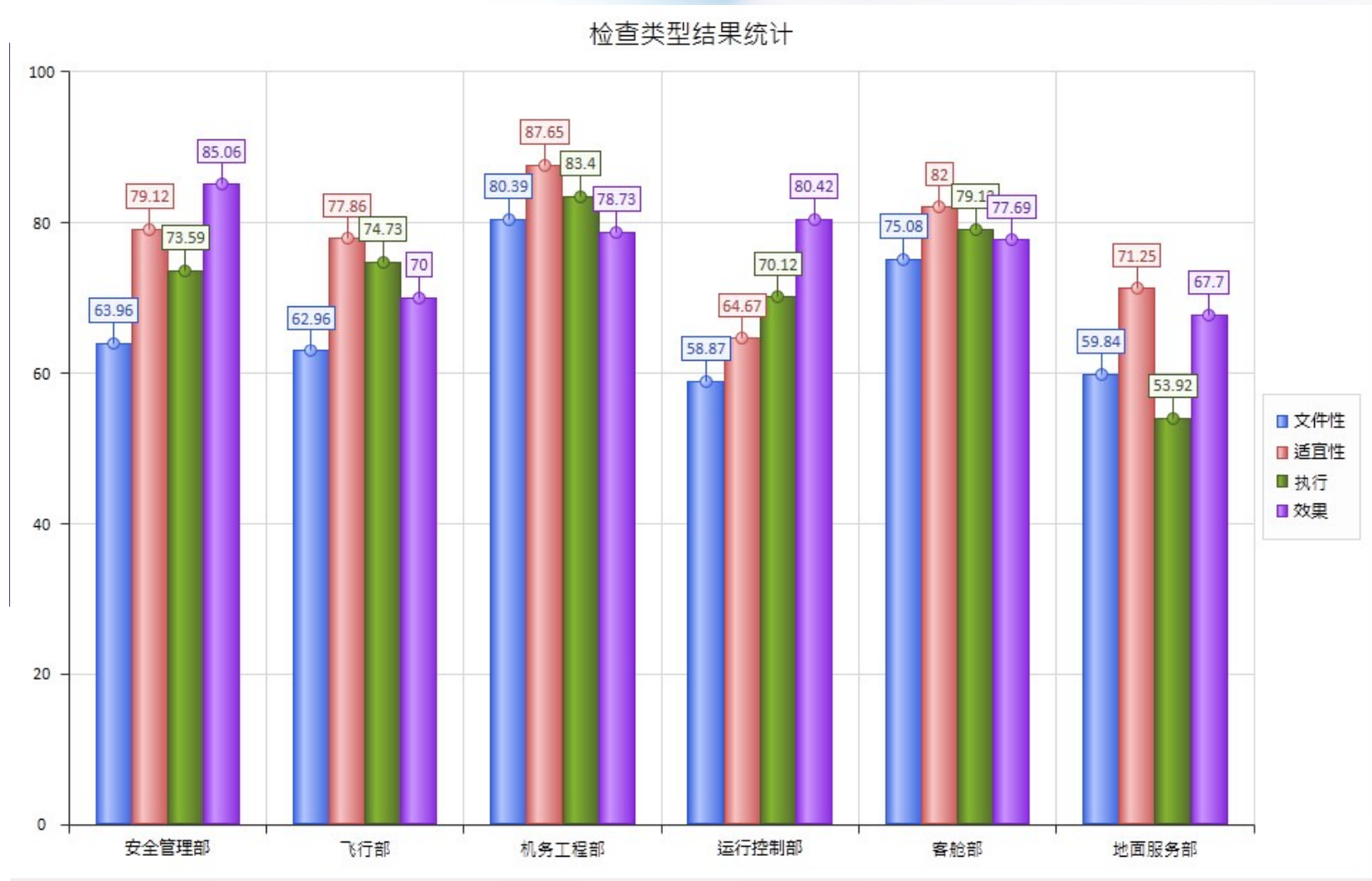


SMS Implement and Assessment





SMS Implement and Assessment



The Implementation of CAAC SSP

- <Rules of Civil Aviation Safety Management>
- SMS Implement and Assessment
- Safety Performance Management
- CAAC FOQA Station



Safety Performance Management

Stage I (2010-2013)

- Pilot work of airports in Central South Region

Stage II (2014)

- Pilot work of China Express

Stage III (2015—2016)

- Pilot work of 11 service providers in seven regions

Stage IV (2017—2020)

- Promote SPM throughout all service providers



Stage III (2015—2016)

The circular on the pilot work of safety performance management in civil aviation

民航明传电报

签批盖章 李 健

等级 平急

局发明电〔2015〕406号

关于开展行业安全绩效管理试点工作的通知

民航各地区管理局，航科院：

为进一步提升安全管理体系(SMS)效能，摸索适合我国民航行业特点的安全绩效管理模式和方法，民航局决定在行业内开展安全绩效管理试点。现将有关事宜通知如下：

一、试点周期

2015年1月-2016年6月。

二、参与单位

1. 民航局航安办；
2. 各地区管理局；

共 37 页



中国南方航空
CHINA SOUTHERN



春秋航空
SPRING AIRLINES



中国民用航空局航空安全办公室
Office of Aviation Safety, CAAC

Stage IV (2017—2020)

Safety Performance Management Promotion Program

民航局文件

民航发〔2017〕45号

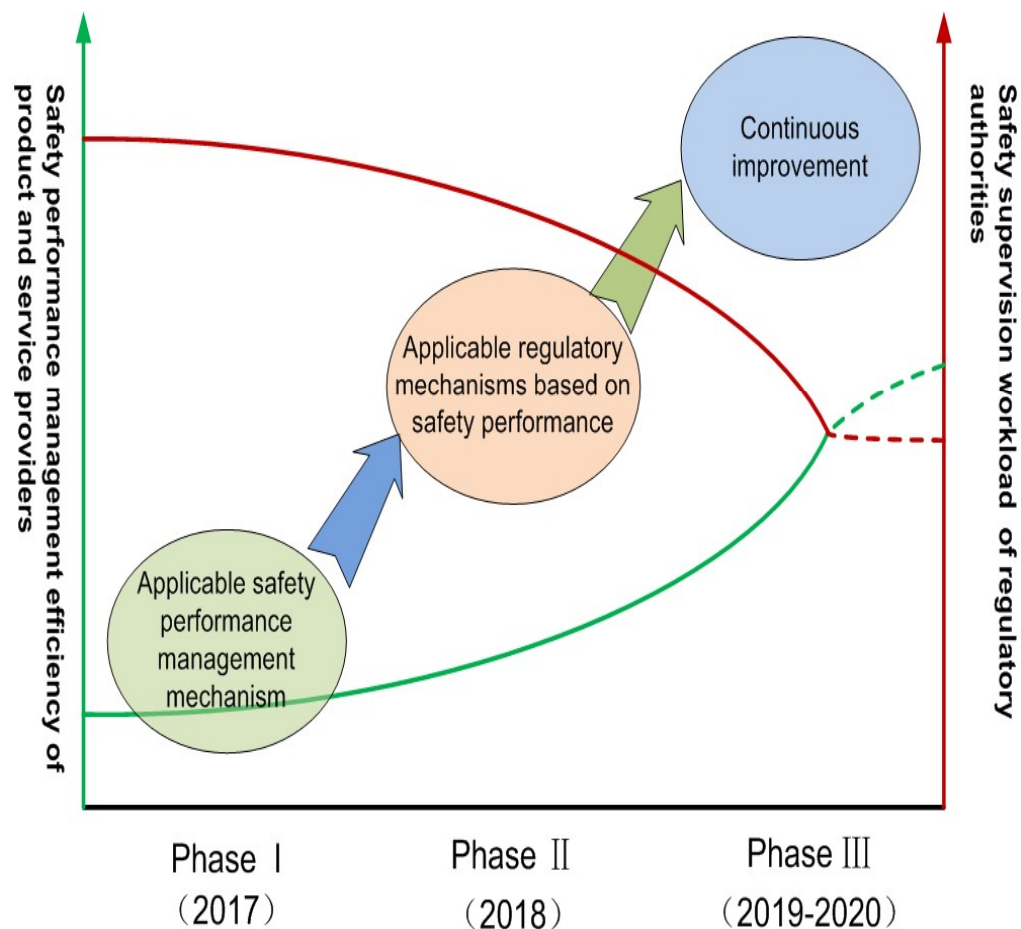
关于印发安全绩效管理推进方案的通知

民航各地区管理局,各运输(通用)航空公司,各服务保障公司,各机场公司,局属各单位:

为深入贯彻落实习近平总书记“对安全隐患零容忍”的重要批示精神,严守规章标准底线、安全诚信红线,进一步保障SMS落地,有效发挥SMS效能,全面推进安全绩效管理工作,现将《安全绩效管理推进方案》印发你们,请认真贯彻落实。

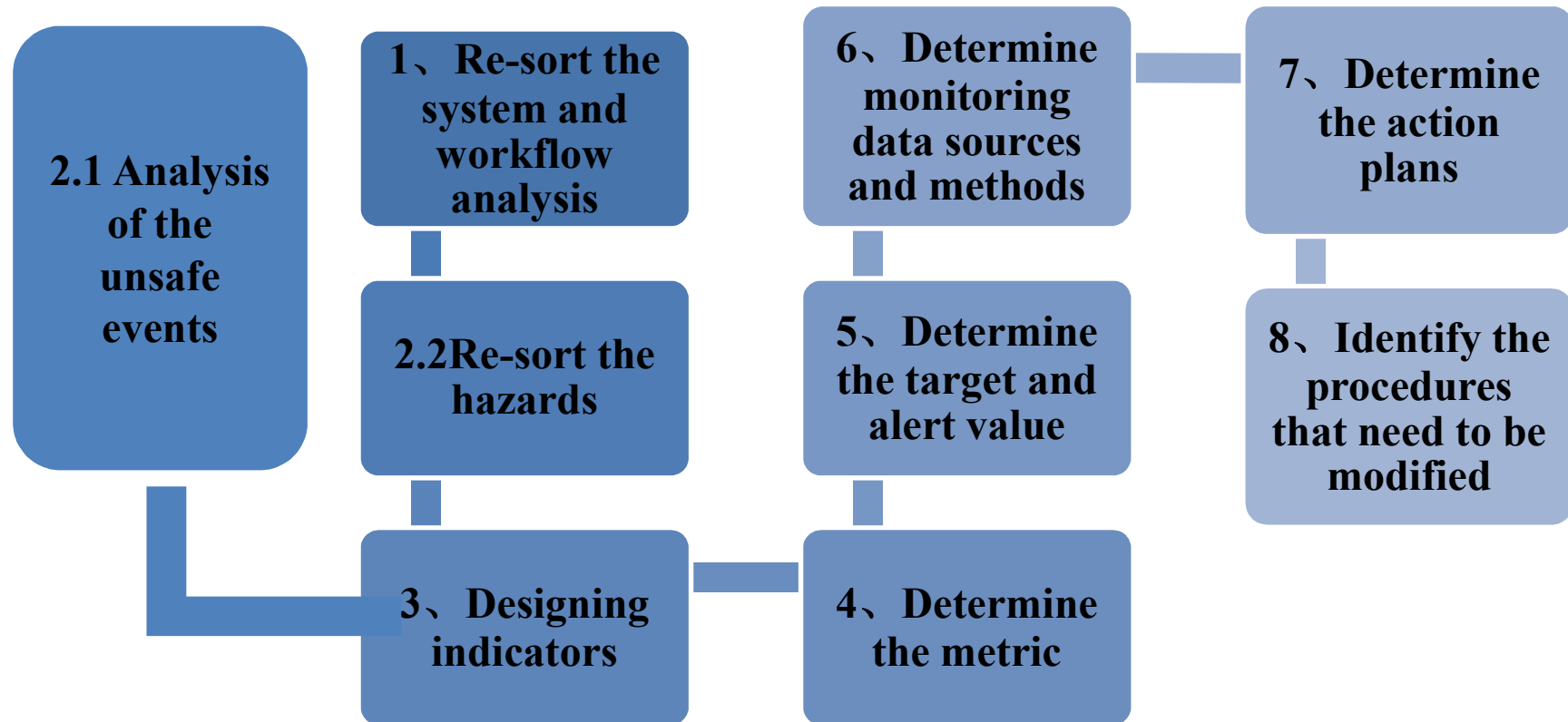


— 1 —

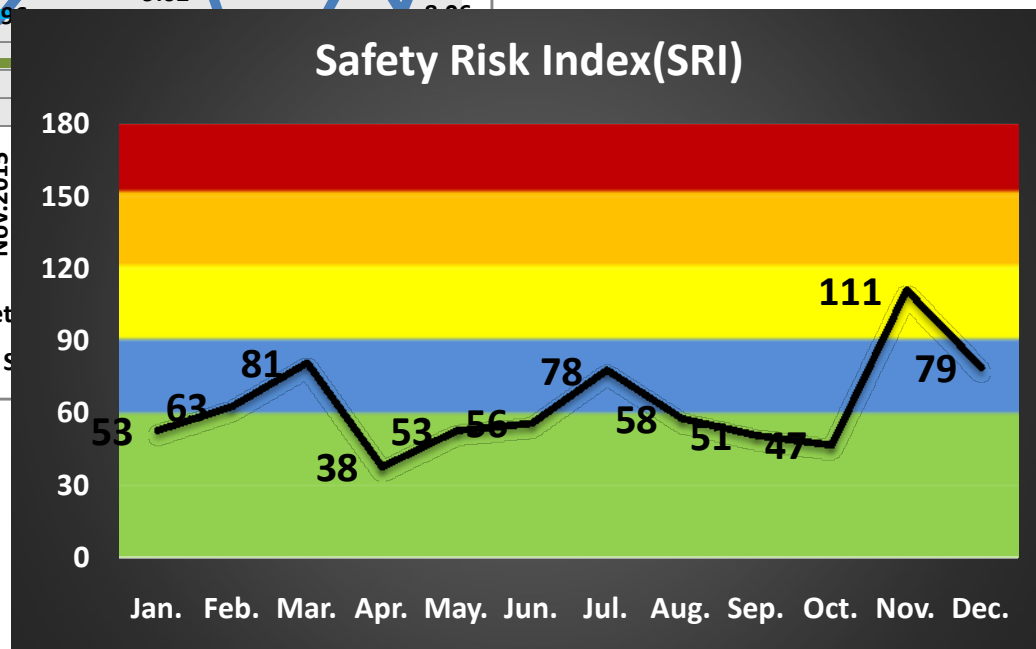
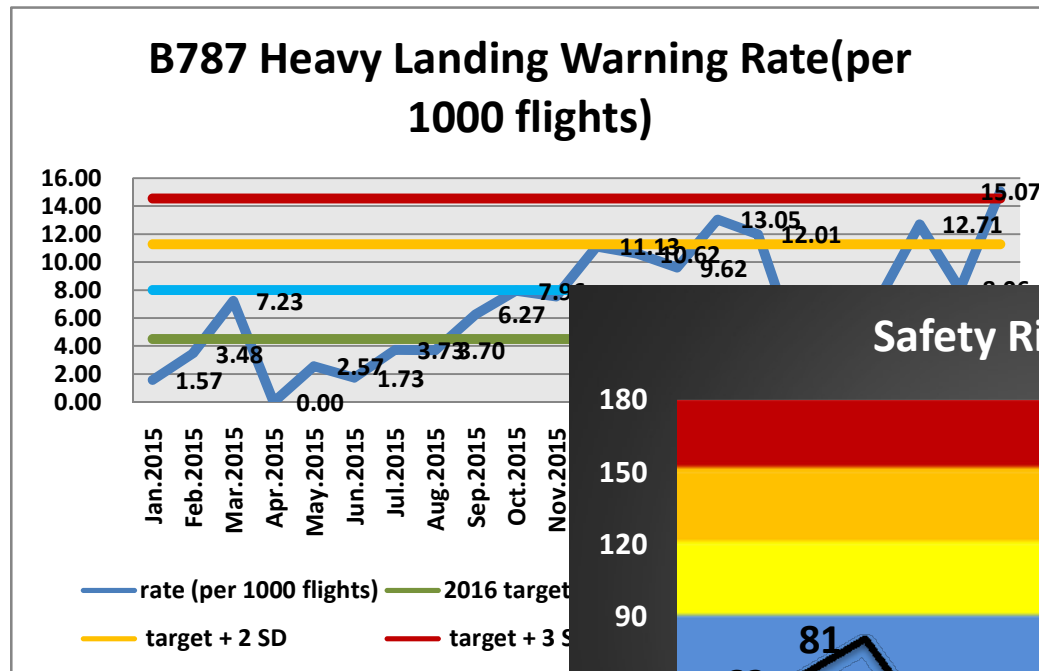


中国民用航空局航空安全办公室
Office of Aviation Safety, CAAC

Safety Performance Management Workflow



Safety Risk Index Monitoring Chart



Achievements

1

Improved safety level

The frequency of high consequence events were generally decreased, especially the human error events

2

Improved the level of safety management

The establishment of a data-based safety management mechanism, many low consequence indicators were monitored

3

Improved safety culture

Safety training improvements, the number and quality of voluntary reporting were both improved



The Implementation of CAAC SSP

- <Rules of Civil Aviation Safety Management>
- SMS Implement and Assessment
- Safety Performance Management
- CAAC FOQA Station



CAAC FOQA Station

An Oversight Tool
for authorities
An Data Analysis and
Sharing platform for
industry



- To identify safety trends and risks
- To promote the establishment of credit system



- ❑ CCAR-121 Commercial Airlines: 51
- ❑ Monitoring Aircrafts: 3200 (90% installed WQAR)
- ❑ Near 15000 flights and 150GB QAR raw data per day



Standards for 13 aircraft types , such as belows

A320

A330

ARJ21

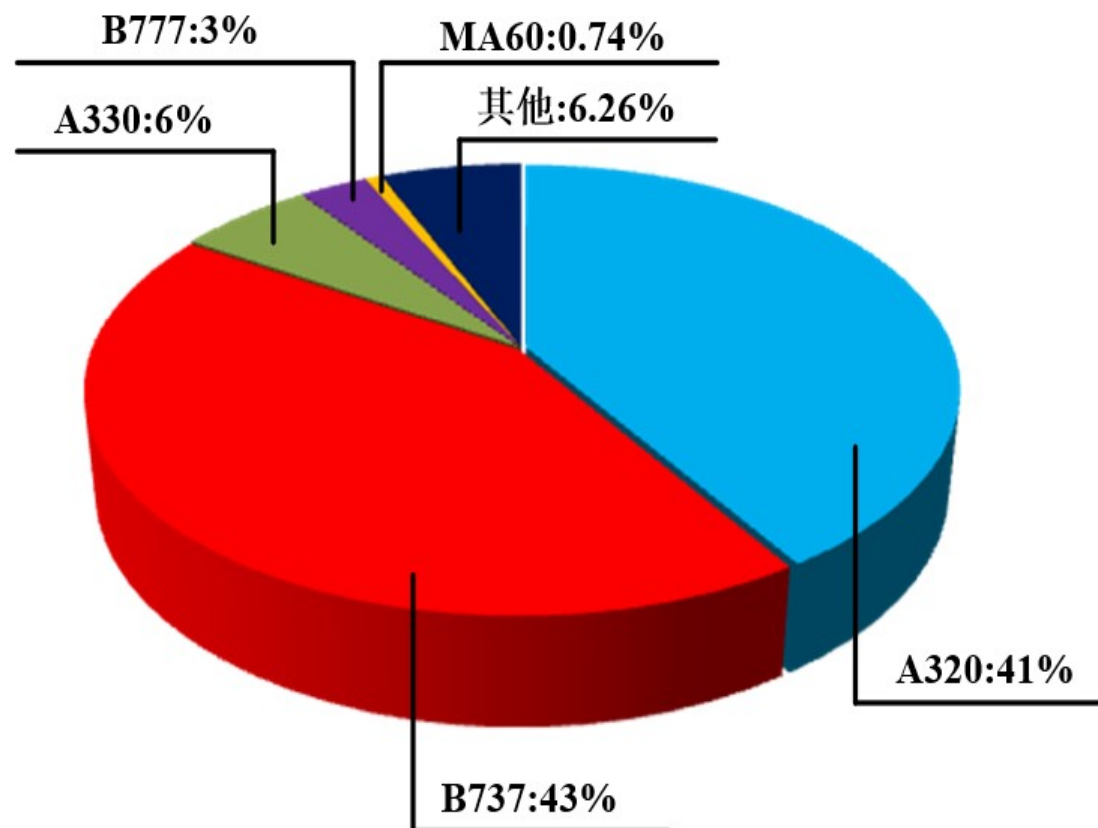
B737

B777

MA60

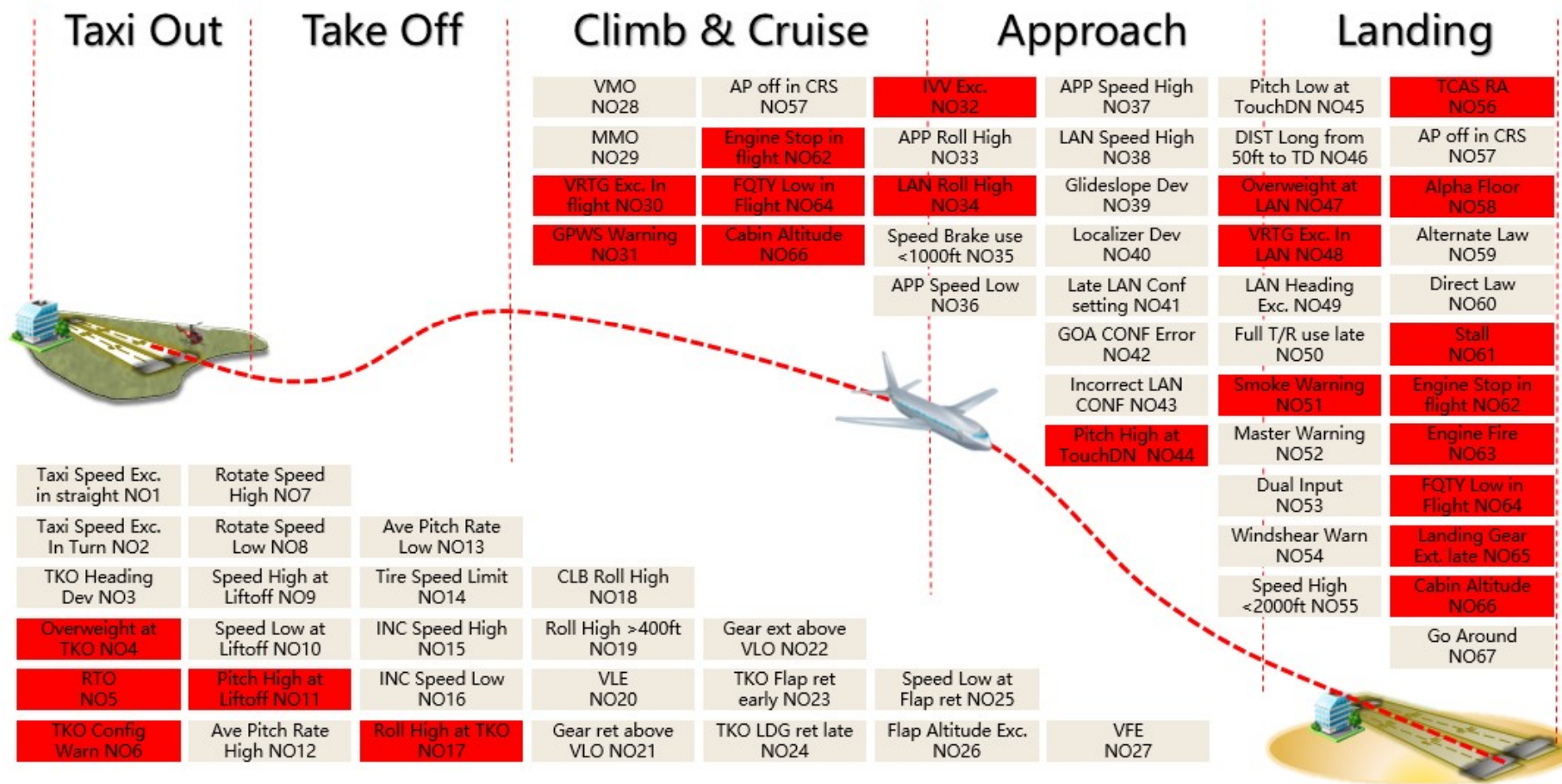
CAAC FOQA Station

Programs for A320/A330/B737/B777/MA60



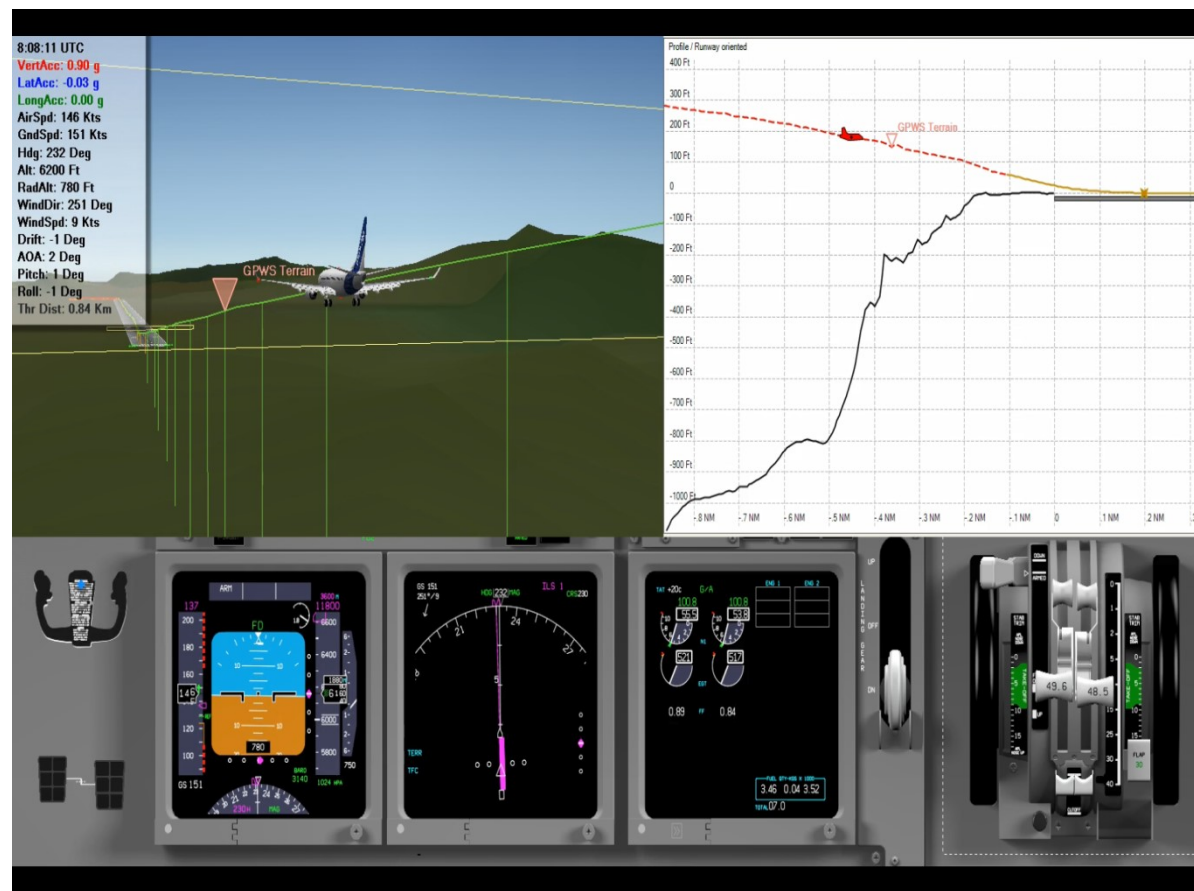
CAAC FOQA Station

FOQA Items



CAAC FOQA Station

Special Event Analysis

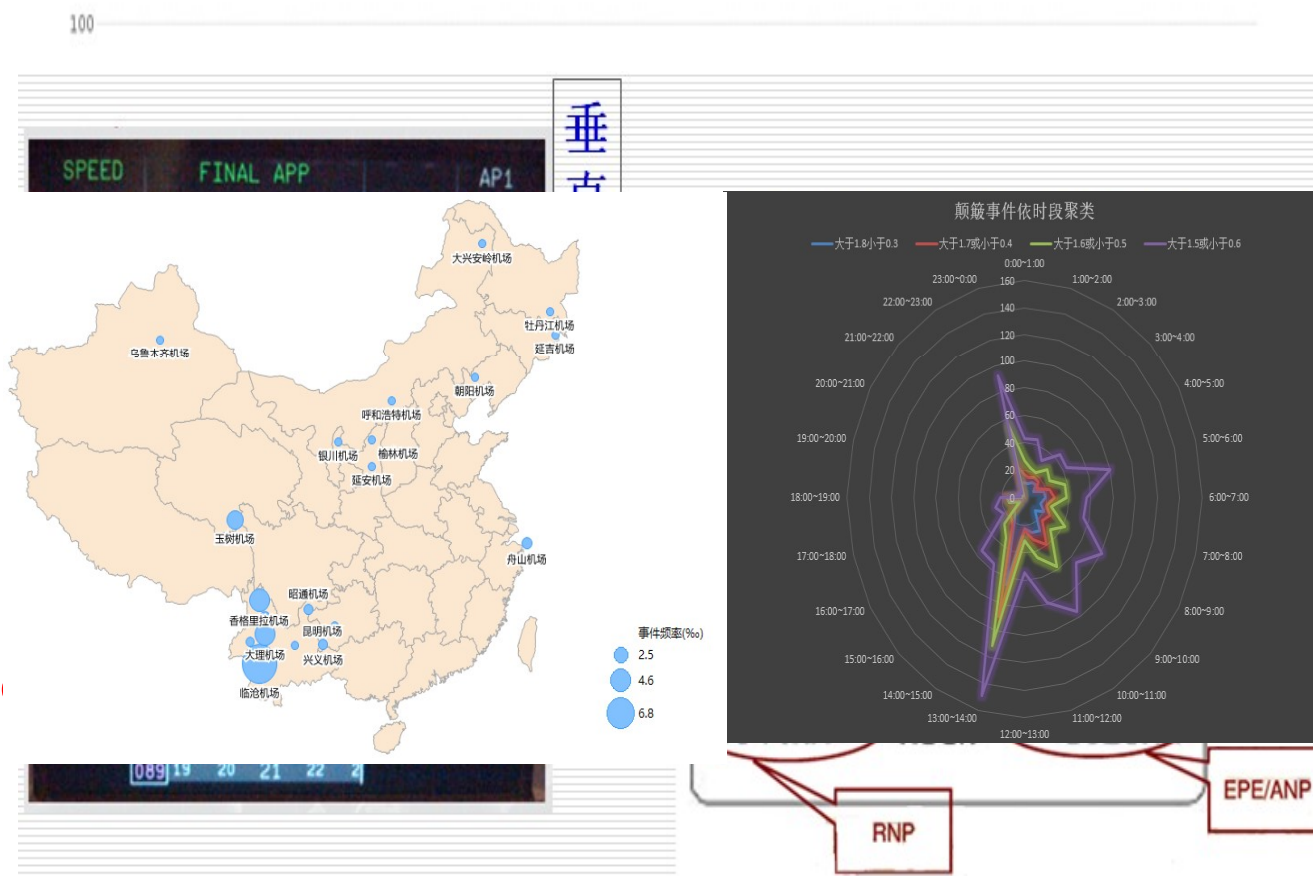


中国民用航空局航空安全办公室
Office of Aviation Safety, CAAC

CAAC FOQA Station

Risk Analysis

- CFIT
- Runway
- Safety
- PBN
- Turbulan
-



CAAC FOQA Station

Reports and Information published



- Daily Report
- Specific Risk Report
- Important Event Report
- Quarter Report
- Subject Analysis Report



中国民用航空局航空安全办公室
Office of Aviation Safety, CAAC

Outline

- The Main Content of CAAC SSP
- The Implementation of CAAC SSP
- Further Actions



Further Actions

- ❑ To establish the review mechanism and procedure for safety policies
- ❑ To establish internal audit mechanism for SSP
- ❑ To establish the mature ALoS of SSP
- ❑ To establish and continuously improve procedures for the agreement on safety performance of individual service providers' SMS
- ❑ To improve capacity for collecting low consequence outcomes
- ❑ To develop a training program for all relevant staff on key components of SSP
- ❑ ...





Thank you !

