



MIDANPIRG/22 & RASG-MID/12

Doha, Qatar | May 4-8, 2025

Erdal Yesilbas

Acting Head of Safety and Risk Management / QCAA



Qatar National Aviation Safety Plan (NASP)

The Qatar National Aviation Safety Plan (NASP):

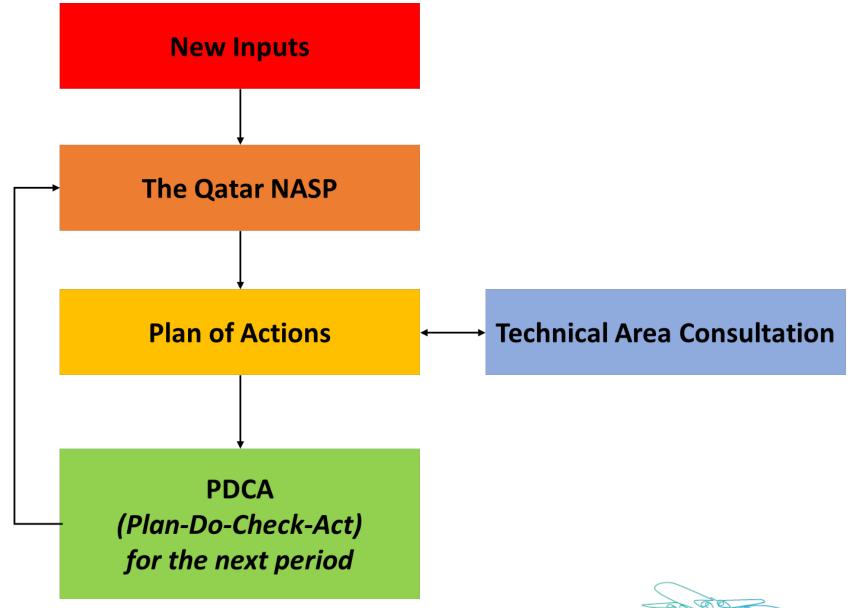
- ✓ complements the Qatar State Safety Programme (SSP);
- √ aims to minimize the risk of fatalities through the development and implementation of a national aviation safety strategy;
- ✓ **details Qatar's commitment** to continuously improve aviation safety management capabilities for reducing the risks of aviation operations; and
- ✓ serves as the plan for continuous improvement of aviation safety in Qatar.

Through the NASP & SSP, the State of Qatar affirms its commitment to:

- ongoing improvement of aviation safety,
- sufficient resourcing of activities, and
- increased collaboration at the national, regional, and global levels.

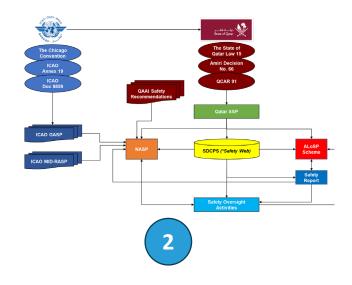




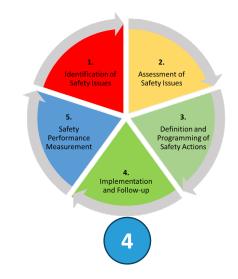


Flow of the Process

REGULATORY SCHEME	SAFETY POLICIES, PROGRAMMES AND PLANS	IMPLEMENTATION OF THE PLANS AS PRESENTED IN THE PROGRAMMES	
ICAO Annex 19 — Safety Management: Standards and Recommended Practices (SARPs) ICAO Doc 9859 — Safety Management Manual (SMM): Guidance	ICAO Global Aviation Safety Plan (GASP) and Middle East Regional Aviation Safety Plan (MID- RASP): Global and regional key risks Action items for the identified key risks Responsibilities	Responsibility for the safety at ICAO (Global and regional levels): Iciobal and regional resident of the safety management implementation by the States	
Law 15: Primary aviation legislation Amini Decree 66: QCAA Grganization QCAR 91: Safety Management Regulation	Catar State Safety Programme (SSP): System description Safety policy, goals, and objectives Responsibilities and functions Autorial Aviation Safety Plan (NASP): National key risks Action items for the identified key risks Responsibilities	Responsibility for the safety at State / national level; national review national	
Service Providers' specific Operating Processes and Procedures: Implementation of an SMS in accordance with the requirements of the QCAR 91— Safety Management	Safety Management Systems (SMS) of Service Providers: • System description • Safety policy, goals, and objectives • Responsibilities and functions	Responsibility for the safety at the service provider level: Responsible for the safety of their own operations Safety management Garden SP and NASP Produce safety information for the Criganization's own SMS Safety safety management Demonstration of the SMS performance	
	SCHEME Salety Management Salety Management Salety Management Salety Recommended Prodeces (SAPP) Salety Management Manual (SMM) Lave 15: Primary aviation (perses 6s: COAA COAA COAA Amin Decree 6s: COAA COAA Service Providers' Specific Operating Processes and Processes and Salety Service Providers' Specific Operating Processes and SALETY SALETY SALETY Management Salety Sal	RECULATION* Scheme I CAC Annex 19- Safety Safety Annex 19- Safety Recommender Standards and Faccommender Fac	

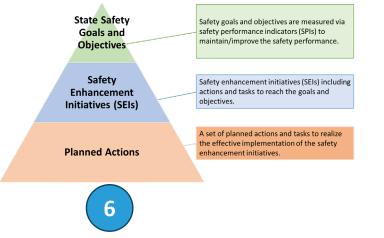












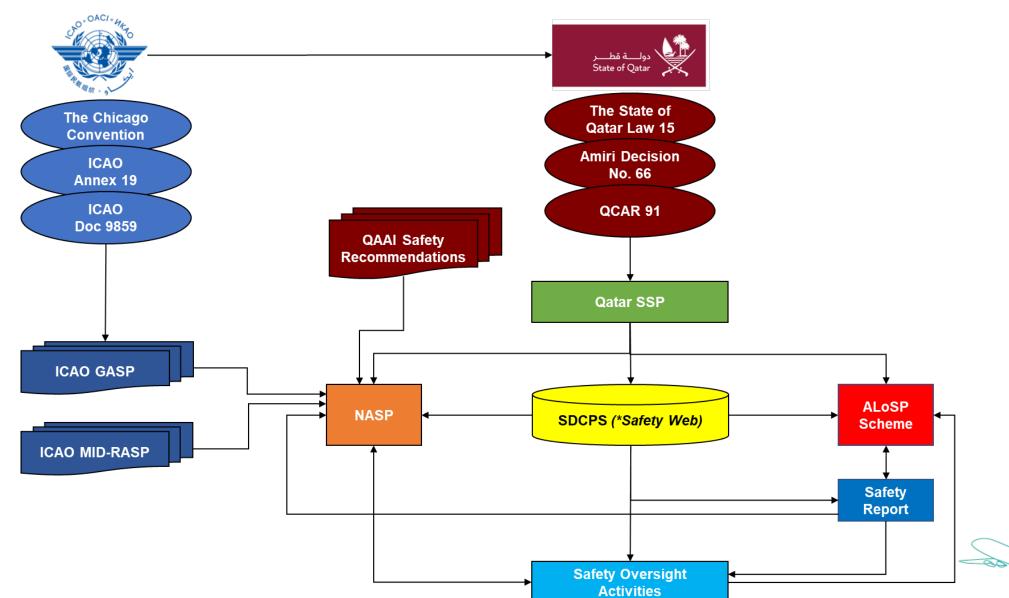


Koles and

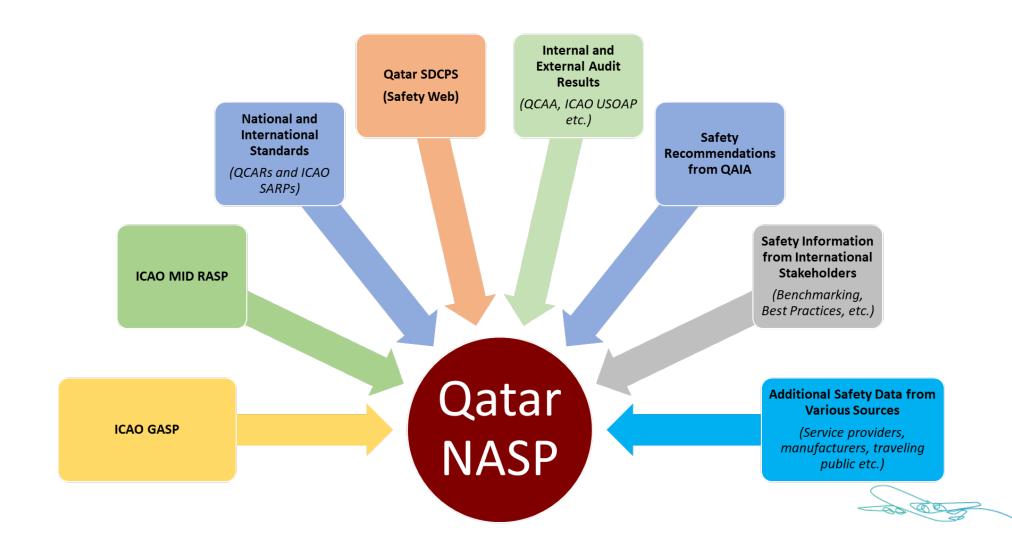
SAFETY POLICIES, IMPLEMENTATION OF THE PLANS REGULATORY PROGRAMMES AND AS PRESENTED IN THE **SCHEME** PLANS **PROGRAMMES** Responsibility for the safety at ICAO ICAO Annex 19 -ICAO Global Aviation Safety Plan (GASP) and (Global and regional levels): Safety Management: Middle East Regional Global and regional risk portfolio Standards and Aviation Safety Plan (MIDmaintenance Recommended RASP): Annex 19, ICAO SMM, GASP and Practices Global and regional key RASP update and implementation (SARPs) risks Monitoring and oversight of the Action items for the safety management ICAO Doc 9859 -Global and implementation by the States identified key risks Safety Regional Level Responsibilities Management Manual (SMM): Guidance Law 15: Primary **Qatar State Safety** Responsibility for the safety at State Programme (SSP): / national level: aviation legislation National risk portfolio maintenance Amiri Decree 66: System description Safety policy, goals, and SSP & NASP update, QCAA implementation, and oversight objectives Organization Responsibilities and Monitoring and oversight of the QCAR 91: Safety safety management functions Management implementation by the Regulation Qatar National Aviation stakeholders both at the State and Safety Plan (NASP): service provider levels CIVIL AVIATION AUTHORITY National key risks Contributing to ICAO safety Action items for the management efforts both regionally identified key risks and globally State Level Responsibilities Safety Management Service Providers' Responsibility for the safety at the Systems (SMS) of Service Specific Operating service provider level: Providers: Processes and Responsible for the safety of their Procedures: System description own operations Safety policy, goals, and Implementation of an Safety management objectives SMS in accordance implementation considering the Responsibilities and Qatar SSP and NASP with the requirements of the QCAR 91 functions Produce safety information for the: Safety Management Organization's own SMS Service Provider State safety management Level

Demonstration of the SMS performance

Overview of the Qatar SSM Scheme



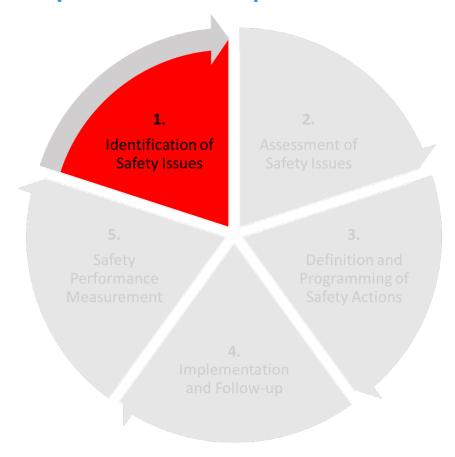
Sources Feeding the NASP Content



The SRM Wheel

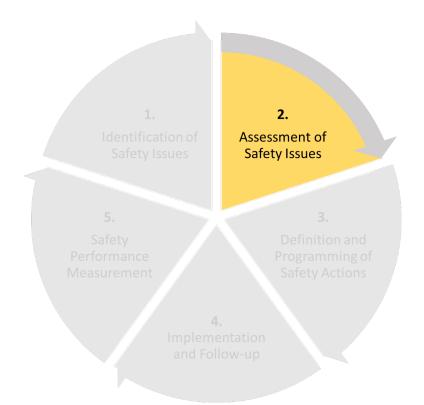


System Inputs



- ☐ Regulatory compliance/implementation levels
- ☐ National hazard / risk register
- ☐ Global and regional issues
- ☐ Results of the **oversight activities**
- ☐ Safety insights / wisdom from the safety analysis processes
- ☐ Results of the **safety promotion activities** (safety trainings, safety culture surveys etc.)
- ☐ Commitments and inputs from the upper management (NSC, SRB etc.)

Safety Priorities





ORGANIZATIONAL / SYSTEMIC SAFETY ISSUES

State Safety Oversight Capacity

Safety Management Implementation

Human Factors and Competence of Personnel

Accident and Incident Investigation Capacity



OPERATIONAL SAFETY ISSUES

LOC-I

CFIT

RS (RE&RI)

MAC



EMERGING SAFETY ISSUES

Communicable Diseases

GNSS Outages / Vulnerability

Drones (UAS/RPAS)

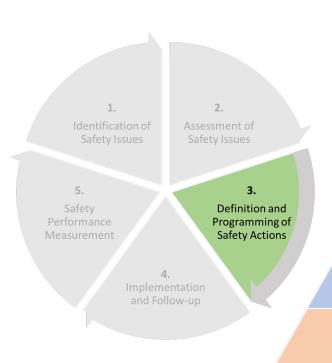
Impact of Security on Safety

Laser Attacks

Cyber Attacks



State Safety Goals, SPIs, SEIs, and Planned Actions



State Safety
Goals and
Objectives

Safety Enhancement Initiatives (SEIs)

Planned Actions

Safety goals and objectives are measured via safety performance indicators (SPIs) to maintain/improve the safety performance.

Safety enhancement initiatives (SEIs) including actions and tasks to reach the goals and objectives.

A set of planned actions and tasks to realize the effective implementation of the safety enhancement initiatives.



Qatar NASP & SEI Implementation Assurance

- NASP is a 5-year rolling plan reviewed every year (or earlier, when required)
- ☐ Implementation of the SEIs listed in the NASP will be monitored in a continuous manner,
- Safety performance level of the State will be assessed regularly through the indicators contained in NASP,
- In the event that the national safety goals and targets are not met, the root causes will be presented.



Safety Oversight, Surveillance and Performance Monitoring

PQ No.	Protocol Question	References in ICAO Guidance Material	SSP Component	Maturity Levels				
				Not Present and Not Planned	Not Present but Being Worked On	Present	Present and Effective	
SSP.GEN.01	How has the State formally designated the authority in charge of coordinating the implementation and maintenance of the State Safety Programme (SSP)?	SMM 8.3.6	State Safety Policy, Objectives and Resources	Based on current situation in State	Based on State's work in progress	1. The State authority in charge of coordinating the implementation and maintenance of the SSP is formally designated by an appropriate governing body. 2. The responsibilities, governance and documented roles of the State authority in charge of coordinating the implementation and maintenance of the SSP are clearly defined.	1. The designated authority that is responsible for coordinating the implementation and maintenance of the SSP, including a department or person responsible for day-16-day SSP-related functions, is able to make progress in institutionalizing the SSP within the State. 2. The responsibilities entrusted to the State authority in charge of coordinating the implementation and maintenance of the SSP are clear to all entities involved in these activities, and there are no overlapping responsibilities and functions or gaps amongst these entities.	

I				co	MPLI	ANCE				
#	SET	REF	PROTOCOL QUESTIONS (PQs)	STATUS			HOW ACHIEVED?			
				Y	N	N/A				
			Is there a confidential safety reporting							
1.		1.1.1	system to capture errors, hazards, and							
	.≌		near misses that is simple to use and							
!	<u> </u>		accessible to all staff?	-						
			Does the safety reporting system provide appropriate feedback to the							
2.	r£	1.1.2	reporter and, where appropriate, to the							
	1. Safety Reporting		rest of the organisation?							
			Do the personnel express confidence							
3.		1.1.3 (C)	and trust in the organisation's reporting							
			policy?							
	#		MATURITY ASSESSMENT MARKE				-	~		
Present	1.		is a confidential reporting system to capt includes a feedback system and stored on				currences and voluntary reports			
S.			•							
	2.		rocess identifies how reports are actioned	-			-			
Suitable	3.		eporting system is accessible and easy to							
- 電	4.	Responsibilities, timelines, and format for the feedback are meaningful and well defined.								
જ	5.	Data protection and confidentiality is 1.								
	6.		The reporting system is being us o							
Operating	7.	There is feedback to the repor no aken) and, where appropriate, to								
풀	L	Reports are evaluated, prr n								
ౣౢ౾	8.									
ll C		porting system.								
<u> </u>	10.	Identification of Assessment of								
	11.		is a healthy repo		ety Iss		nd the quality of reports			
	4.0	receiv	eu.		Cty 155	,400				
Effective	12.		reports are arr in in r. nnel express co and i. c			olicy and process.				
ı	13.			_		ns' r	ns and continuously			
	14.	impro		- 111	ar-	2	is and continuously			
	15.	_	eporting system	_		3.	opliers and contractors).			
	23.		Safety		De	finition a	and			
	Maturity Lev (P/S/O/E) Performance					grammir	ng of			
SET 1:			Measurement							
Sajety						5115				
Reporting										
			<u> </u>			•	- 			

and Follow-up

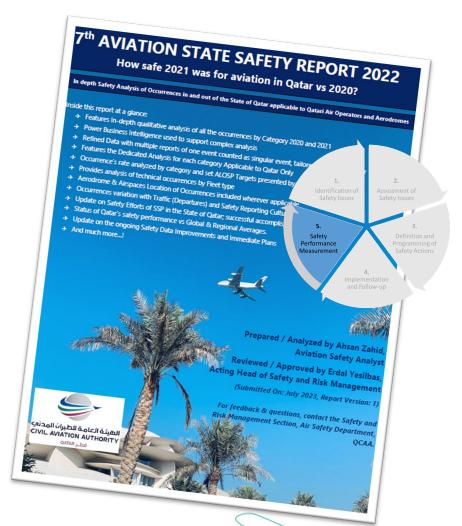




Qatar Annual State Safety Report (ASR)

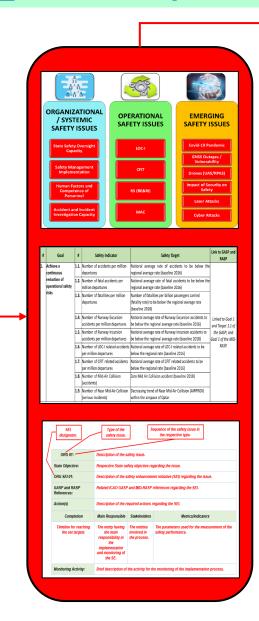
The annual aviation safety report is published to complement the NASP for:

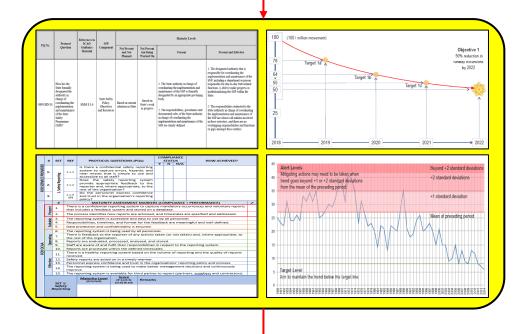
- ✓ providing stakeholders with relevant up-todate information on the progress made;
- ✓ achieving the national safety goals and targets, as well as the implementation status of the SEIs; and
- ✓ If critical operational safety risks identified, reasonable measures will be taken to mitigate them as soon as practicable, possibly leading to an unscheduled revision of the NASP.

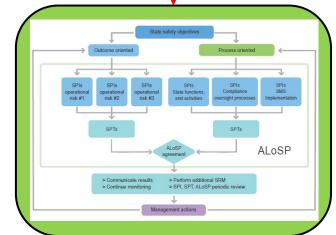


System Inputs

- Compliance to the legislation
- National hazard / risk register
- Global and regional issues
- Results of the oversight activities
- Safety insights / wisdom from the safety analysis processes
- Results of the safety promotion activities (safety trainings, safety culture surveys etc.)
- Commitments and inputs from the upper management (NSC, SRB etc.)







What are the Main Challenges?

- ☐ Creation of a customized structure "styled" for the own aviation environment
- ☐ Stakeholder involvement / engagement in the development and implementation processes
- ☐ Alignment/linkage/harmony with other plans of the State (National development plan, civil aviation master plan, security and facilitation plans, aviation health risk mng. plan, etc.)
- ☐ Health of the safety data/information sources (accuracy, reliability,

continuity, etc.)

☐ Harmonization of the State and service provider SPIs

Some points to share

- ☐ ICAO Global Aviation Safety Plan (GASP), ICAO Middle East Regional Aviation Safety Plan (MID-RASP) and all related ICAO material have been thoroughly reviewed for full alignment with the most up-to-date ICAO requirements.
- ☐ European Aviation Safety Plan (EPAS) and all related publicly available EASA material have been reviewed for bench marking and best practice purposes.
- □ Publicly available NASP and SSP documents of the other States (approx. 30 States) have been <u>reviewed</u> for benchmarking and best practice purposes.



Thank You

