STATE OF KUWAIT

DIRECTORATE GENERAL OF CIVIL AVIATION AVIATION SAFETY



دولة الكويت الإدارة العامة للطيران المدني سلامة الطيران

2025/303/SUPDT-R/41

2025/10/9

All KCASR Stakeholders and Users

Sub.: Regulatory Circular No. 2025-24.

<u>Revision Number 5 to Kuwait Civil Aviation Safety Regulations - KCASR 19 - SAFETY MANAGEMENT - PART 1.</u>

Dear Sir,

Please find enclosed herewith the regulatory circular No. <u>2025-24</u> regarding the issuance of <u>KCASR 19 - SAFETY MANAGEMENT - PART 1</u> <u>Rev. 5</u>. This is for your information and distribution to all concerned departments.

Up to date KCASR Parts are published on the DGCA/ASD website (https://kcasr.dgca.gov.kw).

If required, the DGCA/Aviation Safety Department personnel are available to answer your questions on the interpretation and intended implementation of the proposed amendments.

KCASR 19 - SAFETY MANAGEMENT - PART 1 Rev. 5 will be in effect from 26/Oct/2026

Yours Sincerely,

President of Civil Aviation.

Eng. Duaij Khalat Alotaibi

Acting Director General DGCA

CC:

Director General of Civil Aviation.
Dy. Dir. Gen. Kuwait. Intel. Airport Affairs.
Dy. Dir. Gen. for Air Navigation Services Affairs.
Safety Management Coordination Center (SMCC).
Head of Technical Office.
Civil Aviation Security Department.
Aviation Safety Director.
Air Transport Director.
Inspection & oversight Superintendent.
Head of Standards & Aviation Safety Regulations Division.



EM

Rev 9

Web site: www.dgca.gov.com.kw , E-mail: info@dgca.gov.kw

STATE OF KUWAIT

DIRECTORATE GENERAL OF CIVIL AVIATION
AVIATION SAFETY



دولت الكويت الإدارة العامة للطيران المدني سلامة الطيران

2025/10/9

2025/304/SUPDT-R/41

REGULATORY CIRCULAR (NO. 2025-24)

Subject:

Notice of Amendment to Kuwait Civil Aviation Safety Regulations KCASR (issue 4).

Purpose:

The purpose of this Regulatory Circular No. <u>2025-24</u> is to Amend KCASR 19 - SAFETY MANAGEMENT - PART 1 (issue 4) to comply with DGCA requirements.

This Regulatory Circular No. 2025-24 is based on (NPA) No. 2025-21 dated 09/Sep/2025

Revisions:

This amendment will be included in the revision (5) of KCASR 19 - SAFETY MANAGEMENT - PART 1.

Regulatory Requirements:

This amendment shall apply to the following Organizations approved by the Directorate General of Civil Aviation (DGCA) or authorised to operate within the State of Kuwait:

- 1. Airport Operators;
- 2. Air Navigation Service Providers;
- 3. Air Operator Certificate (AOC);
- 4. Approved Maintenance Organizations (AMO) Holders;
- 5. Ground Handling Service Providers;
- 6. Training Organizations;
- All users of KCASRs.

Effective Date:

This new revision will be in effect from 26/Oct/2026

Required Action:

All users of KCASR must comply with the provisions of this amendment from the effective date.

President of Civil Aviation

Eng. Duaij Khalaf Alotaibi

Acting Director General DGCA

A LANGUEST NEWKUWAIT

Web site: www.dgca.gov.com.kw, E-mail: info@dgca.gov.kw

ص. ب. : 17 الصفاة - الرمز البريدي 13001 دولة الكويت - البدالة 965 24336699 - الرد الآلي: 161 965 - فاكس: 965 24713504



KCASR 19 - SAFETY MANAGEMENT - PART 1

Issue 4 Revision 5 Oct 2025 Page 1 of 64



KCASR 19 Safety Management – Part 1

Contents

Amend	Amendment Record 4				
Contro	l of this Document 5				
DC.1	Introduction	on		5	
DC.2	Authority	for this Regulation		5	
DC.3	Applicabil	ity		5	
DC.4	Definitions	s		5	
1.	DEFINITI	ONS		6	
2.	SCOPE:			10	
3.	FRAMEW	ORK FOR SMS		12	
3.1	COMPON	ENT 1: SAFETY POL	ICY AND OBJECTIVES	13	
3.1.1	Manageme	ent Commitment and res	sponsibilities	13	
3.1.2	Safety acco	ountabilities		14	
3.1.3	Appointme	ent of key safety person	nel	15	
3.1.4	Coordinati	on of emergency respor	nse planning	18	
3.1.5	SMS Documentation				
3.2	COMPONENT 2: SAFETY RISK MANAGEMENT21				
3.2.1	Hazard Identification				
3.2.2	Safety Risk Assessment and Mitigations				
3.3	COMPONENT 3: SAFETY ASSURANCE				
3.3.1	Safety Performance Monitoring and Measurement				
3.3.2	Management of Change				
3.3.3	Continuou	s Improvement of the S	MS	30	
3.4	COMPON	ENT 4: SAFETY PRO	MOTION	31	
3.4.1	Training and education				
3.4.2	Safety Communication				
4.	APPENDIX 1: SAFETY CULTURE AND JUST CULTURE 33				
5.	APPENDIX 2: HAZARD IDENTIFICATION AND RISK 34				
6.	APPENDI	X 3: SAFETY RISK AS	SSESSMENT MATRIX	35	
7.	APPENDIX 4: EMERGENCY RESPONSE PLAN CONTENT 36				
8.	APPENDI	X 5: SMS IMPLEMEN	TATION PLAN	40	
]	Issue 4	Revision 5	Oct 2025	Page 2 of 64	



KCASR 19 Safety Management – Part 1

9.	APPENDIX 6: SAFETY PERFORMANCE INDICATOR (SPI) FOR ORGANIS	SATION
10.	APPENDIX 7: MINIMUM SMS MANUAL CONTENT	53
11.	APPENDIX 8: SAFETY RISK REGISTER FORM	60
12.	APPENDIX 9: ROOT CAUSE ANALYSIS (RCA)	61
13.	APPENDIX 10: EXAMPLE OF BOWTIE MODEL	64



KCASR 19 Safety Management – Part 1

Amendment Record

Revision No.	Date	Remarks	
1	Jul 2017	First Issue	
2	March 2018	NSRA 2018-02 and Part Rename	
3	Feb 2020	Updated to ICAO annex 19 (2 nd Addition)	
4	Sep 2021	Complete update to be in synch with the SSP	
5	Oct 2025	Updated to ICAO annex 19 (Amendment 2)	

Issue 4	Revision 5	Oct 2025	Page 4 of 64
issue 4	Kevision 5	OCT 2025	raye 4 of 64

KCASR 19 Safety Management – Part 1

Control of this Document

DC.1 Introduction

DC.1.1 Pursuant to Law No (30) of the year 1960 and subsequent Ministerial Decisions No (18) of the year 1996, based upon that Law, the President of the Kuwait Directorate General of Civil Aviation is empowered to adopt and amend Kuwait Civil Aviation Safety Regulations. In accordance herewith, the following Regulation is hereby established for compliance by all persons concerned. This regulation shall be known as KCASR 19 Safety Management and any reference to this title shall mean referring to these regulations governing the basic requirements to be met for civil aviation in the State of Kuwait.

DC.2 Authority for this Regulation

DC.2.1 This KCASR 19 Safety Management is issued on the authority of the President of the Kuwait Directorate General of Civil Aviation.

DC.3 Applicability

DC.3.1 This KCASR 19 Safety Management is applicable to the aviation industry of the State of Kuwait.

DC.4 Definitions

DC.4.1 Terms not defined shall have the meaning given to them in the relevant legal instruments or international legal instruments in which they appear, especially as they appear in the Convention and its Annexes and This regulation's Definitions.

Issue 4	Revision 5	Oct 2025	Page 5 of 64
---------	------------	----------	--------------



KCASR 19 Safety Management – Part 1

1. DEFINITIONS

- 1) **Alert Level:** An established level or criteria value outside of the normal operating range or out-of-control region that triggers a warning that an adjustment or evaluation is needed.
- 2) **Consequence:** Actual or potential impact of a hazard that can be expressed qualitatively and/or quantitatively. More than one consequence may evolve from an event.
- 3) **Corrective Action:** Action to eliminate the cause of or reduce the effects of a detected hazard or potentially hazardous situation in order to prevent its recurrence.
- **Defences:** Specific mitigating actions, preventive controls or recovery measures put in place to prevent the realization of a hazard or its escalation into an undesirable consequence.
- 5) **Error:** An action or inaction by an operational person that leads to deviations from organisational or the operational person's intentions or expectations.
- 6) **Hazard:** A condition or an object that could cause or contribute to an aircraft incident or accident.
- 7) **Hazard Analysis:** Analysis performed to identify hazards, hazard effects, and hazard causal factors used to determine system risk.
- 8) **Hazard Identification:** A process to establish a list of hazards relevant to the activity and the causes/threats that could release them.
- 9) High-consequence Indicators: Safety Performance Indicators pertaining to the monitoring and measurement of high-consequence occurrences, such as accidents or serious incidents. High-consequence indicators are sometimes referred to as reactive indicators.
- 10) **Human Factors:** Principles which apply to aeronautical design, certification, training, operations and maintenance and which seek safe interface between the human and other system components by proper consideration to human performance.
- 11) **Investigation:** A process conducted for the purpose of accident prevention which includes the gathering and analysis of information, the drawing of conclusions, including the determination of causes and, when appropriate, the making of safety recommendations.
- 12) **Lower-consequence Indicator:** Safety Performance Indicators pertaining to the monitoring and measurement of lower-consequence occurrences, events or activities such as incidents, non-conformance findings or deviations. Lower-consequence indicators are sometimes referred to as proactive/predictive indicators.
- 13) **Open Reporting Culture:** An organisational perspective that actively encourages effective safety reporting by defining acceptable behaviour (often unintended errors) and

Issue 4	Revision 5	Oct 2025	Page 6 of 64
---------	------------	----------	--------------



KCASR 19 Safety Management – Part 1

- unacceptable behaviour (such as recklessness, violations or sabotage), and provides fair protection to reporters.
- 14) **Operational Personnel:** Personnel involved in aviation activities who are in a position to report safety information.

Note. Such personnel include, but are not limited to: flight crews; air traffic controllers; maintenance technicians; personnel of aircraft design and manufacturing organisations; cabin crews; flight dispatchers, apron personnel and ground handling personnel.

- 16) **Predictive:** Any method that continuously analyses current and historical information forecast potential future occurrences.
- 17) **Prescriptive Standards:** Standards that specify methods for complying with safety requirements.
- 18) **Preventive Action:** Pre-emptive action to eliminate or mitigate the potential cause or reduce the future consequence of a hazard.
- 19) **Proactive:** Any method that actively searches for potential safety risks through the analysis of an organisation's activities prior to occurrence.
- 20) **Reactive:** Any method that responds to past occurrences.
- 21) **Risk:** The assessed predicted probability and severity of the consequence(s) or outcome(s) of a hazard.
- 22) **Risk Analysis:** Process whereby possible consequences of hazards are objectively characterized for their severity and probability. The process can be qualitative and/or quantitative.
- 23) **Risk Assessment:** The identification, evaluation, and estimation of the level of risk.
- 24) **Risk Control**: Activities that ensure that safety policies, procedures, and processes minimize the risk of an aviation accident or incident.
- 25) **Risk Management:** An organisational function that assesses the organisation's system design and verifies that the system adequately controls risk. A formal risk management process describes a system, assesses hazards, analyses those hazards to evaluate the risk, and establishes controls to manage those risks.
- 26) **Risk Mitigation:** The process of incorporating defences, preventive controls or recovery measures to lower the severity and/or probability of a hazard's projected consequence.
- 27) **Safety:** The state in which risks associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.
- 28) **Safety Assessment:** Documentation that contains hazard descriptions, the related consequences, the assessed probability and severity of the safety risks, and required safety risk controls.

Issue 4	Revision 5	Oct 2025	Page 7 of 64
---------	------------	----------	--------------



KCASR 19 Safety Management – Part 1

- 29) Safety Assurance: Processes used to ensure risk controls developed under the risk management process achieve their intended objectives throughout the life cycle of a system. This process may also reveal hazards not previously identified and identify or assess the need for new risk control, as well as the need to eliminate or modify existing controls. This is one of the four components of SMS.
- 30) **Safety Culture:** An enduring set of values, norms, attitudes, and practices within an organisation concerned with minimizing exposure of the workforce and the general public to dangerous or hazardous conditions. In a positive safety culture, a shared concern for, commitment to, and accountability for safety is promoted.
- 31) **Safety Management System (SMS):** A systematic approach to managing safety, including the necessary organisational structures, accountabilities, policies and procedures.
- 32) **Safety Performance Indicator**: A data-based parameter used for monitoring and assessing safety performance.
- 33) **Safety Performance Target:** The planned or intended objective target for Safety Performance Indicator(s) over a given period that aligns with the safety objectives.
- 34) **Safety Promotion:** A combination of safety culture, training, and information sharing activities that support the implementation and operation of an SMS in an organisation. This is one of the four components of SMS.
- 35) **Safety Risk:** The predicted probability and severity of the consequences or outcomes of a hazard.
- 36) **Safety Risk Management:** A process used to assess system design and verify that the system adequately controls risk. A formal risk management process describes a system, assesses hazards, analyses those hazards to evaluate the risk, and establishes controls to manage those risks. This is one of the four components of SMS.
- 37) **Severity:** The extent of loss or harm associated with consequences of a hazard.
- 38) **Severity Catastrophic:** Results in multiple fatalities and/or loss of the aircraft.
- 39) **Severity Hazardous:** A large reduction in safety margins, physical distress, or workload such that organisations cannot be relied upon to perform their tasks accurately or completely. Serious injury or death to a small number of aircraft occupants, ground personnel, and/or general public. Major equipment damage.
- 40) **Severity Major:** A significant reduction in safety margins and a reduction in the ability of organisations to cope with adverse operating conditions as a result of an increase in workload, significant discomfort, or conditions impairing their efficiency. Serious incident with physical distress to occupants of aircraft, injuries, and equipment damage.
- 41) **Severity Minor:** Does not significantly reduce system safety and operator actions are well within their capabilities. May include slight reduction in safety margins, operating

Issue 4 R	evision 5	Oct 2025	Page 8 of 64
-----------	-----------	----------	--------------



KCASR 19 Safety Management – Part 1

limitations, slight increase in workload, some physical discomfort, and/or minor equipment damage.

- 42) **Severity Negligible:** Little consequence. Has no effect on safety.
- 43) **State Safety Programme (SSP):** An integrated set of regulations and activities aimed at improving safety.



KCASR 19 Safety Management – Part 1

2. SCOPE:

This regulation establishes the Safety Management System (SMS) requirements for service providers, organisations approved/ certified in accordance with KCASR but not limited to the follows:

- a) Approved training organization, in accordance with KCASR 1, that is exposed to safety risks related to aircraft operations during the provision of its services.
- b) Certified operator of aeroplanes or helicopters authorized to conduct international commercial air transport, in accordance with KCASR 6.
- c) Approved maintenance organization providing services to operators of aeroplanes or helicopters engaged in international commercial air transport.
- d) Organization responsible for the type design of aircraft, engines or propellers, in accordance with KCASR 8.
- e) Organization responsible for the manufacture of aircraft, engines or propellers, in accordance with KCASR 8.
- f) ATS provider, in accordance with KCASR 11.
- g) Operator of a certified aerodrome, in accordance with KCASR 14 Vol 1
- h) Ground Handling Provider Certified under KCASR 14 Vol 3.
- i) An entity certified under KCASR 22 and/or KCASR 23.
- j) Operators holding an RPAS operator certificate authorized to conduct international operations in accordance with KCASR 6 Part IV (if applicable).
- k) Approved maintenance organizations providing services to operators in (j).
- 1) Operators of certified heliports, in accordance with KCASR 14 Volume II (Heliports).

Where the organisation holds more than one organisation certificate, the Safety Management System shall be combined and integrated. This includes AOC holders who are at the same time holding flight training organisation approval in accordance with KCASR 1 Part ORA.

DGCA may, by regulatory instrument, require implementation of an SMS by other sectors where appropriate to support State safety risk management.

Issue 4	Revision 5	Oct 2025	Page 10 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

The SMS shall correspond to the size of the organisation and the nature and complexity of its activities, taking into account the hazards and associated risks inherent in these activities.

Where the term "periodic" or "periodically" is used, the organisation shall define the timeframe within its manuals.



KCASR 19 Safety Management – Part 1

3. FRAMEWORK FOR SMS

The implementation and maintenance of an SMS framework for shall be met by the applicable organisations and accepted by Kuwait DGCA. The framework comprises four components and twelve elements as the minimum requirements for SMS implementation.

These components shall be verified by Kuwait DGCA for adequacy and, upon availability of sufficient data, for effectiveness.

Components and elements of the SMS framework

COMPONENT	ELEMENT
	3.1.1 Management commitment
	3.1.2 Safety accountability and responsibilities
3.1 Safety policy and objectives	3.1.3 Appointment of key safety personnel
	3.1.4 Coordination of emergency response planning
	3.1.5 SMS documentation
2.2 Safats wiels man a comment	3.2.1 Hazard identification
3.2 Safety risk management	3.2.2 Safety risk assessment and mitigation
	3.3.1 Safety performance monitoring and measurement
3.3 Safety assurance	3.3.2 The management of change
	3.3.3 Continuous improvement of the SMS
2.4.5.5.4	3.4.1 Training and education
3.4 Safety promotion	3.4.2 Safety communication

GM to 3

As the establishment of the Safety Management System requires time, new organisations and organisations that are transitioning from traditional safety programme to an integrated SMS should follow a phased approach. <u>APPENDIX 5</u> provides an example of how a phased approach towards SMS implementation may be established for organisations not having SMS. While sequencing the establishment of the different elements is left to the organisation, Kuwait DGCA expects elements mentioned under Phase 1 to be provided at the time of application.

Upon completion of the phases, Kuwait DGCA will check the SMS for effectiveness.

Issue 4	Revision 5	Oct 2025	Page 12 of 64
---------	------------	----------	---------------

KCASR 19 Safety Management – Part 1

3.1 COMPONENT 1: SAFETY POLICY AND OBJECTIVES

Safety policy outlines the principles, processes and methods of the organisation's SMS to achieve the desired safety outcomes. The policy establishes senior management's commitment to incorporate and continually improve safety in all aspects of its activities. Senior management develops measurable and attainable organisation wide safety objectives to be achieved.

3.1.1 Management Commitment and responsibilities

The organisation shall define its safety policy which shall:

- (a) reflect organisational commitment regarding safety;
- (b) include a clear statement about the provision of the necessary resources for the implementation of the safety policy and achievement of the safety objectives;
- (c) establish a non-punitive approach which supports safety reporting and encourages an open reporting culture for the purpose of safety improvement, not to apportion blame;
- (d) clearly indicate that cases of gross negligence, wilful misconduct or a significant continuing safety concern are unacceptable in relation to the organisation's aviation activities and include the circumstances under which disciplinary action would not be applicable within the framework of the Safety Management System;
- (e) be signed by the Accountable Manager;
- (f) be communicated, with visible endorsement throughout the organisation;
- (g) be periodically reviewed to ensure it remains relevant and appropriate to the organisation.

GM to 3.1.1(b)

Safety objectives identify what the organisation intends to achieve in terms of safety management. The safety objectives are expressed as a top-level statement describing the organisation's commitment to achieving safety. The safety objectives are linked with the Safety Performance Indicators, targets and mitigation plans. (For more guidance see also <u>APPENDIX 7</u> – Safety Performance Indicators).

GM to 3.1.1(c)

Just and Safety culture concept is explained in APPENDIX 2.

Issue 4 Revision 5 Oct 2025 Page 13 of 64



KCASR 19 Safety Management – Part 1

3.1.2 Safety accountabilities

The organisation shall:

- (a) identify the Accountable Manager who has full control of the resources, final authority over operations under the certificate/approval of the organisation and ultimate responsibility and accountability for the establishment, implementation and maintenance of the SMS; safety policies and the resolution of all safety issues.
- (b) clearly define lines of safety accountability throughout the organisation, including a direct accountability for safety on the part of senior management;
- (c) identify the accountabilities of all members of management, irrespective of other functions, as well as of employees, with respect to the safety performance of the SMS;
- (d) document and communicate safety responsibilities, accountabilities and authorities throughout the organisation; and
- (e) define the levels of management with authority to make decisions regarding safety risk tolerability.

AMC 1 to 3.1.2(a)

The Accountable Manager's authorities and accountabilities should include, but are not limited to:

- (a) communication and promotion of the safety policy;
- (b) establishment of the organisation's safety objectives and safety targets;
- (c) establishment, implementation and maintenance of the organisation's competence to learn from the analysis of data collected through its safety reporting system and others Safety Data Collection and Processes Systems (SDCPS) in place; and
- (d) establishment of a just culture which encourages safety reporting. (See APPENDIX 2).

AMC 2 to 3.1.2(a)

Depending on the size, structure and complexity of the organisation, the Accountable Manager should be:

- (a) the chief executive officer (CEO) of the Organisation; or equivalent; or
- (b) the chairperson of the board of directors; or
- (c) A person holding an appropriate delegation by a legally authorised person to act as an Accountable Manager.

Issue 4	Revision 5	Oct 2025	Page 14 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

3.1.3 Appointment of key safety personnel

3.1.3.1 Post Holder SMS

The organisation shall appoint a properly educated, trained and experienced person who fulfils the role of Post Holder SMS for the development and maintenance of an effective Safety Management System.

The appointed person shall have direct access to the Accountable Manager to ensure that the Accountable Manager is kept properly informed on safety matters. The Post Holder SMS shall be accepted by the Kuwait DGCA.

The Post Holder SMS is a senior management position and shall not hold other positions that may conflict or impair his role as Post Holder SMS unless specifically approved by the Kuwait DGCA.

AMC to 3.1.3.1

The Post Holder SMS functions should include but are not limited to:

- (a) managing the SMS implementation;
- (b) performing/facilitating hazard identification and safety risk analysis;
- (c) monitoring corrective actions and evaluating their results;
- (d) providing periodic reports on the organisation's safety performance;
- (e) maintaining records and safety documentation;
- (f) planning and facilitating staff safety training;
- (g) providing independent advice on safety matters;
- (h) monitoring safety concerns in the aviation industry and their perceived impact on the organisation's operations aimed at service delivery;
- (i) managing that processes for SDCPS such as safety reporting, Flight Data Monitoring (FDM) and other safety data collection methods are established, and ensuring that they are implemented; and
- (j) advising the Safety Review Board on safety issues, in case the organisation has established such a board.

Issue 4	Revision 5	Oct 2025	Page 15 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

GM to AMC to 3.1.3.1 (j)

Depending on size, complexity and nature the organisation may need to establish a Safety Review Board (SRB) which is a high-level committee that considers matters of strategic safety importance in support of the Accountable Manager's safety accountability.

The SRB provides the platform to achieve the objectives of resource allocation and to assess the effectiveness and efficiency of risk mitigation strategies. The SRB is chaired by the Accountable Manager and composed of senior managers, including line managers responsible for functional areas as well as those from relevant administrative departments. The Post Holder SMS participates in the SRB in an advisory capacity. The SRB meets periodically.

The SRB:

- (a) monitors the effectiveness of the SMS;
- (b) monitors that any necessary corrective action is taken in a timely manner;
- (c) monitors safety performance against the organisation's safety policy and objectives;
- (d) monitors the effectiveness of the organisation's safety management processes which support the declared corporate priority of safety management as another core business process;
- (e) monitors the effectiveness of the safety supervision of subcontracted operations;
- (f) ensures that appropriate resources are allocated to achieve safety performance beyond that required by regulatory compliance.

The SRB is strategic and deals with high-level issues related to policies, resource allocation and organisational performance monitoring. Once a strategic direction has been developed by the SRB, implementation of safety strategies should be coordinated throughout the organisation. This can be accomplished by creating a Safety Action Group (SAG). SAGs are composed of line managers and front-line personnel and are normally chaired by a designated line manager.

GM 1 to 3.1.3.1

Below are examples of which may be considered to meet the proper education, training and experience requirement:

- (a) safety/quality management experience;
- (b) operational experience;
- (c) technical background to understand the systems that support operations;

Issue 4 Revision 5 Oct 2025 Page 16 of 64	
-------------------------------------------	--



KCASR 19 Safety Management – Part 1

- (d) people skills;
- (e) analytical and problem-solving skills;
- (f) project management skills; and
- (g) oral and written communications skills.

GM 2 to 3.1.3.1

Organisations may establish a Safety Action Group to achieve the established performance, which reports to and takes strategic direction from the SRB.

- (a) A Safety Action Group may be established as a standing group or as an ad hoc group to assist the Post Holder SMS or Safety Review Board.
- (b) More than one Safety Action Group may be established depending on the scope of the task and specific expertise required.
- (c) The Safety Action Group should report to, and take strategic direction from the Safety Review Board.
- (d) The Safety Action Group may, assist the Post Holder SMS in:
 - 1) oversee operational safety performance within the functional areas of the organisation and ensures that appropriate safety risk management activities are carried out with staff involvement as necessary to build up safety awareness;
 - 2) coordinate the resolution of mitigation strategies for the identified consequences of hazards and ensures that satisfactory arrangements exist for safety data capture and employee feedback;
 - 3) assess the safety impact related to the introduction of operational changes or new technologies;
 - 4) coordinate the implementation of corrective action plans and ensures that corrective action is taken in a timely manner;
 - 5) oversee safety promotion activities as necessary to increase awareness of safety issues among relevant employees, to ensure that employees are provided appropriate opportunities to participate in safety management activities.
- (e) The Safety Action Group may also be tasked with the review the effectiveness of previous safety actions and safety promotion.
- (f) The Post Holder SMS may also be included in the SAG.

Issue 4	Revision 5	Oct 2025	Page 17 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

3.1.4 Coordination of emergency response planning

The organisation shall ensure that the Emergency Response Plan (ERP) is properly coordinated with the Emergency Response Plans of those organisations it must interface with during the provision of its services.

AMC to 3.1.4

The ERP should be documented in the format of a manual or directly integrated into the SMS Manual and reflect the size, nature and complexity of the activities performed by the organisation. If the Emergency Response Plan is documented in a separate document, it should be cross-linked to SMS manual.

The ERP should also:

- (a) ensure an orderly, safe and efficient transition from normal to emergency operations, and back to normal;
- (b) ensure delegation of emergency authority;
- (c) ensure authorisation by key personnel for actions contained in the plan;
- (d) ensure coordination of efforts to cope with the emergency;
- (e) ensure that the responsibilities, roles and actions of various agencies and personnel involved in dealing with emergencies are defined and personnel trained;
- (f) periodically be tested for the adequacy of the plan and the results reviewed to improve its effectiveness.
- (g) take into account considerations such as:
 - 1) governing policies;
 - 2) organisation;
 - 3) notifications:
 - 4) initial response;
 - 5) additional assistance;
 - 6) Crisis Management Centre (CMC);
 - 7) records;
 - 8) accident site;
 - 9) news media;
 - 10) formal investigations;
 - 11) family assistance;
 - 12) post-critical incident stress counselling; and
 - 13) post-occurrence review.

Issue 4 Revision 5	Oct 2025	Page 18 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

GM to 3.1.4

The Emergency Response Plan addresses possible or likely emergency/crisis scenarios relating to the organization's aviation product or service deliveries.

GM to AMC 3.1.4

APPENDIX 4 provides regulation lines for typical contents of an ERP manual.

3.1.5 SMS Documentation

- (a) The organisation shall develop an SMS Manual endorsed by the Accountable Manager and acceptable to the Kuwait DGCA to demonstrate how the organisation will comply with this Regulation.
- (b) The organisation shall establish a system of record keeping that allows adequate storage and reliable traceability of all records related to Safety Management System processes.

AMC to 3.1.5(a)

An SMS manual defines the organisation's approach to the management of safety in a manner that meets the organisation's safety policy and the requirements of this Regulation. The organisation should develop and maintain SMS documentation that describes how the organisation is going to comply with this regulation; and describes its:

- (a) safety policy and objectives;
- (b) SMS requirements;
- (c) SMS processes and procedures;
- (d) accountabilities, responsibilities and authorities for SMS processes and procedures; and.

GM to AMC 3.1.5(a)

<u>APPENDIX 8</u> provides the minimum requirement for the contents of an SMS manual.

AMC to 3.1.5(b)

(a) The format of the records should be specified in the organisation's procedures.

Issue 4 Revision 5 Oct 2025 Page 19 of 64	
-------------------------------------------	--



KCASR 19 Safety Management – Part 1

- (b) Records should be stored in a manner that ensures protection from damage, alteration, and theft.
- (c) The record keeping system should ensure that all records are accessible whenever needed and records should be organised in a way that ensures traceability throughout the required retention period.
- (d) Paper systems should use robust material which can withstand normal handling and filing. Computer systems should have at least one backup system which should be updated within 24 hours of any new entry. Computer systems should include safeguards against the ability of unauthorised personnel to alter the data.
- (e) All computer hardware used to ensure data backup should be stored in a different location from that containing the working data, and in an environment that ensures they remain in good condition. When hardware or software changes take place, special care should be taken that all necessary data continues to be accessible at least through the full period specified in the relevant provision. In the absence of such indication, all records should be kept for a minimum period of 5 years.
- (f) The records should remain legible throughout the required retention period. The retention period starts when the record has been created or last amended.
- (g) Records related to Safety Management System processes should include but are not limited to:
 - 1) The results of the assessment of the potential adverse consequences or outcome of each hazard (APPENDIX 10);
 - 2) Safety Performance Indicators, targets and related charts;
 - 3) record of completed or in-progress safety assessments;
 - 4) SMS internal review or audit records;
 - 5) safety promotion records;
 - 6) personnel SMS/safety training records;
 - 7) SMS/safety committee meeting minutes; and
 - 8) SMS implementation plan (during implementation process).

3.2 COMPONENT 2: SAFETY RISK MANAGEMENT

Safety risk management shall include hazard identification, safety risk assessment and mitigation processes.

GM to 3.2

An example of the safety risk management process is illustrated in <u>APPENDIX 3</u>, in addition, other risk management methods e.g. BowTie can be useful particularly in the implementation of the mitigations and controls. <u>APPENDIX 11</u> shows an Example of BowTie model.

3.2.1 Hazard Identification

The organisation shall develop, implement and maintain a process that ensures that hazards associated with its aviation products or services are identified. In order to ensure continuity of data flow through internal safety reporting systems, the organisation shall ensure that it effectively implements 2.1.1 (c).

In addition to the proactive and reactive methods of safety data collection the organisation should employ where practical predictive methodologies which could arrest risks from potential hazards.

AMC 1 to 3.2.1

Hazards should be identified through proactive methodologies or as a result of accident or incident investigations (reactive), and where practical through predictive methodologies.

Data sources of hazard identification should be both internal and external to the organisation.

Organisations should establish internal confidential reporting channels to maximise data capturing.

AMC 2 to 3.2.1

The internal safety reporting system should contain the following elements:

(a) the collection and evaluation of those errors, near-misses, and hazards reported internally;

Issue 4	Revision 5	Oct 2025	Page 21 of 64
			_



KCASR 19 Safety Management – Part 1

- (b) corrective and preventive actions are taken internally to address any safety issues and hazards;
- (c) feedback to the organisation's safety training, whilst maintaining appropriate confidentiality;
- (d) provision of feedback to the reporter to ensure his support to the occurrence reporting system and disseminate the results to other relevant parties.
- (e) A non-punitive approach which encourages safety reporting within a system that clearly indicates which types of behaviours are unacceptable.
- (f) an investigation process to:
 - 1) identify and address the factors contributing to occurrences in order to reduce the probability of reoccurrence;
 - 2) identify adverse trends;
 - 3) identify those reports which require further investigation; and
 - 4) establish all root causes, including any technical, organisational, managerial, or human factors issues, and any other contributing factors relating to the event (APPENDIX 10).

GM to AMC1 to 3.2.1

- (a) In addition to the internal reporting systems, flight data analysis and internal audits, Internal hazard identification data sources may include:
 - 1) normal operation monitoring schemes;
 - 2) safety surveys;
 - 3) feedback from training; and
 - 4) investigation and follow-up reports on accidents/incidents.
- (b) External data sources for hazard identification may include:
 - 1) industry accident reports;
 - 2) Kuwait DGCA mandatory occurrence reporting systems
 - 3) Kuwait DGCA audits; and
 - 4) information exchange systems.

GM to 3.2.1

The following may be considered while engaged in the hazard identification process:

Issue 4 Revision 5	Oct 2025	Page 22 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (a) design factors, including equipment and task design;
- (b) human performance limitations (e.g. physiological, psychological and cognitive);
- (c) procedures and operating practices, including their documentation and checklists and their validation under actual operating conditions;
- (d) communication factors, including media, terminology and language;
- (e) organisational factors, such as those related to the recruitment, training and retention of personnel, the compatibility of production and safety goals, the allocation of resources, operating pressures and the corporate safety culture;
- (f) factors related to the operational environment of the aviation system (e.g. ambient noise and vibration, temperature, lighting and the availability of protective equipment and clothing);
- (g) regulatory oversight factors, including the applicability and enforceability of regulations and the certification of equipment, personnel and procedures;
- (h) performance monitoring systems that can detect practical drift or operational deviations; and human-machine interface factors.
- (i) Stem from the existence of complex, (sub-) contract and other operational arrangements.

3.2.2 Safety Risk Assessment and Mitigations

The organisation shall develop, implement and maintain a process that ensures analysis, assessment, and acceptable control of the safety risks associated with identified hazards.

AMC to 3.2.2

Written procedures for developing and implementing Corrective Actions should be established. These should:

- (a) Result in a specific corrective action plan that addresses the following:
 - 1) Development and proposal of the corrective action.
 - 2) Analysis and final approval level of the corrective action, including who is responsible for approval of the corrective action.
 - 3) Who will implement the corrective action.

Issue 4	Revision 5	Oct 2025	Page 23 of 64	
			=	4



KCASR 19 Safety Management – Part 1

- 4) How the responsible person will implement the corrective action.
- 5) When the corrective action completion due date is.
- 6) Who will evaluate the outcome and how, including identification of data requiring collection, awareness of the possibility of unintended consequences, and events that should trigger a response.
- 7) Who will monitor the status of the corrective action and how.
- 8) Reporting the status of the corrective action (to whom, with what frequency).

GM to 3.2.2

The process starts with the identification of hazards and their potential consequences. The safety risks are then assessed in terms of probability and severity, to define the level of safety risk (safety risk index). An example of a safety risk matrix is illustrated in <u>APPENDIX 4</u>. The completed hazard identification and safety risk assessment and mitigation process is then documented and approved as appropriate.

Risk acceptance criteria is established based on the organisation's safety policy and objectives. Once risks have been assessed, the organisation should engage in a decision-making process to determine the need to implement risk mitigation measures. Each safety risk mitigation measure should be examined from the following perspectives:

- (a) Effectiveness: The extent to which the measure reduces or eliminates the safety risk. Effectiveness can be determined in terms of the technical, training and procedural defences that can reduce or eliminate safety risks.
- (b) Cost/benefit: The extent to which the perceived benefits of the mitigation outweigh the costs.
- (c) Practicality: The extent to which the mitigation is implementable and appropriate in terms of available technology, financial and administrative resources etc.
- (d) Acceptability: The extent to which the stakeholders willingly adopt and embrace them
- (e) Enforceability: The extent to which compliance with new operating procedures can be monitored.
- (f) Durability: The extent to which the measure will be sustainable and effective.
- (g) Residual safety risks: The degree of safety risk that remains subsequent to the implementation of the initial mitigation, and which may necessitate additional risk control measures.
- (h) Unintended consequences: The introduction of new hazards and related safety risks associated with the implementation of any mitigation alternative.

Oct 2025	Page 24 of 64
(Oct 2025



KCASR 19 Safety Management – Part 1

The three generic safety risk mitigation approaches include:

- a) Avoidance. The activity is suspended, either because the associated safety risks are intolerable or deemed unacceptable vis-à-vis the associated benefits.
- b) Reduction. Some safety risk exposure is accepted, although the severity or probability associated with the risks are lessened, possibly by measures that mitigate the related consequences.
- c) Segregation of exposure. Action is taken to isolate the potential consequences related to the hazard or to establish multiple layers of defences to protect against them.

A risk mitigation strategy may involve one of the approaches described above, or may include multiple approaches. It is important to consider the full range of possible control measures to find an optimal solution. The effectiveness of each alternative strategy should be evaluated before a decision can be taken.

Once the mitigation has been approved and implemented, any associated impact on safety performance provides feedback to the Organisation's safety assurance process. This is necessary to ensure integrity, efficiency and effectiveness of the defences under the new operational conditions.

The effective implementation of all above mentioned processes, including evidences of its day by day proper implementation, should be available and used on the internal organisation quality process, with the aim to accomplish its utmost objectives.

Quality process should be developed in a documented continuous monitoring audit approach. It should ensure, that investigations are effectively performed to find occurrences' root causes and issue targeted and feasible recommendations to implement corrective actions by the accountable managerial staff on due time.



KCASR 19 Safety Management – Part 1

3.3 COMPONENT 3: SAFETY ASSURANCE

The organisation shall develop, document and maintain safety assurance processes to ensure that the safety risks controls established as a consequence of the hazard identification and risk management activities achieve their intended objectives.

GM to 3.3

Safety assurance consists of processes and activities undertaken by the organisation to determine whether the SMS is operating according to expectations and requirements. The organisation should continually monitor its internal processes as well as its operating environment to detect changes or deviations that may introduce emerging safety risks or the degradation of existing risk controls. Such changes or deviations may then be addressed together with the safety risk management process.

The safety assurance process complements the quality assurance process, with each having requirements for analysis, documentation, and management reviews to ensure that certain performance criteria are met. While quality assurance typically focuses on the organisation's compliance with regulatory requirements, safety assurance specifically monitors the effectiveness of safety risk controls.

3.3.1 Safety Performance Monitoring and Measurement

In order for the organisation to verify its safety performance and to validate the effectiveness of safety risk controls, the organisation shall establish safety performance monitoring and measurement processes.

Establishing Safety Performance Indicators (SPI) and Safety Performance Targets (SPT) of the SMS are two of the outcomes of the safety performance monitoring and measurement processes. Such indicators and targets shall be agreed with the KUWAIT DGCA .

For organisations that do not have sufficient data for the establishment of SPI's and SPT's, the organisation shall establish safety initiatives aiming at continuous improvement in relation to safety standards. These initiatives shall be in line with the safety objectives of the organisation.

Issue 4 Revision 5	Oct 2025	Page 26 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

AMC 1 to 3.3.1

Safety Performance Monitoring processes and systems should include processes and systems for the following:

- Continuous monitoring of operational processes including establishment and monitoring of SPIs and SPTs
- b) Periodic monitoring of the operational environment to detect changes.
- c) Auditing of operational processes and systems.
- d) Evaluations of the SMS.
- e) Evaluations of safety data
- f) Evaluation of contextual data related the organisation environment, conditions, resources and management.

Note 1: Kuwait DGCA selects and monitors SPTs/SPIs to manage and measure Kuwait's State safety performance under the SSP. In order for Kuwait DGCA to periodically monitor the SPTs, the organisations will be required to submit specific data, such as flight hours, engine hours, cycles, number of movements and other required information to Kuwait DGCA in a time and in a manner determined by Kuwait DGCA.

Note 2: Upon completion of the assessments, evaluations and reviews, if ineffective controls, new hazards, or potential hazards are identified, the Organisation should use the safety risk management process.

AMC 2 to 3.3.1

The SPI/SPT agreement should be done between the principal inspector and the organisation. The Principal Inspector will review the SPI's and SPT's presented by the organisation to ensure that they are appropriate, relevant to operational safety and uses the appropriate measuring matrix.

AMC 3 to 3.3.1

The baseline objectives for organisations with insufficient data should target matters of concern for the organisation such as enhancing the safety culture, just culture, reporting and/or improving the level of safety. These initiatives have broad spectrum and may range from Intern low consequence events having a direct bearing on the way activities and processes are implemented; to major possible safety risks, adoption of best industry practices and maintaining zero occurrence levels for particular events even if the organisation did not encounter such events. In this sense, these initiatives act as proactive defences without the presence of actual SPIs. Such

Issue 4	Revision 5	Oct 2025	Page 27 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

defences should be checked for effectiveness as part of the safety assurance processes.

GM1 to 3.3.1

<u>APPENDIX 6</u> provides examples of SPIs and SPTs.

3.3.2 Management of Change

The organisation shall develop, document, implement and maintain a process to identify changes which may affect the level of safety risk associated with its aviation products or services and to identify and manage the safety risks or hazards that may arise from those changes.

AMC to 3.3.2

The organisation should demonstrate that:

- (a) it has established a process, and conducts formal hazard analyses/risk assessment for major operational changes, major organisational changes, and changes in key personnel
- (b) safety assessment/risk assessments are aviation safety focused;
- (c) key stakeholders are involved in the change management process, as appropriate;

GM 1 to 3.3.2

Consideration for management of change are:

- (a) Unless properly managed, changes in organisational structure, facilities, scope of work/approval, personnel, documentation, policies and procedures, etc., may result in the inadvertent introduction of new hazards, exposing the Organisation to new or increased risk.
- (b) The management of change should be a process aiming at identifying external and internal changes that may have an adverse effect on safety before implementation. It should make use of the organisation's existing hazard identification, risk assessment, and mitigation processes.
- (c) Regardless of the magnitude of change, large or small, there should always be a proactive consideration for safety implications. This is primarily the responsibility of the team proposing and/or implementing the change. However, change can only be successful if

Issue 4	Revision 5	Oct 2025	Page 28 of 64



KCASR 19 Safety Management – Part 1

- all personnel affected by the change are engaged, involved, and participate in the process. The magnitude of change, its safety criticality, and its potential impact on human performance should be assessed in any change management process. **See GM 2 to 2.3.2**
- (d) Management of change provides principles and a structured framework for managing all aspects of the change. Disciplined application of change management can maximise the effectiveness of the change, engage staff, and minimise the risks inherent in change.
- (e) Some examples of change include, but are not limited to:
 - 1) organisational restructuring;
 - 2) acquisition of equipment;
 - 3) new aircraft type included in the approval;
 - 4) additional aircraft or equipment of the same or similar type;
 - 5) significant changes in personnel (affecting key personnel and/or large numbers of personnel, high turnover);
 - 6) new or amended regulations, procedures;
 - 7) competition;
 - 8) customer base;
 - 9) security;
 - 10) financial status;
 - 11) new schedule(s), location(s), type(s) of maintenance, and/or operational procedures;
 - 12) the generation or alteration of maintenance data; and
 - 13) change of a safety significant subcontractor.
 - 14) changes to risk control, policy, etc.
- (f) The change also has the potential to introduce new, or exacerbate pre-existing, human factors issues. For example, changes in machinery, equipment, technology, procedures, work organisation, or work processes are likely to affect performance.
- (g) The purpose of integrating human factors into the management of change is to minimise potential risks by specifically considering the impact of the change on the people within a system.
- (h) Special consideration, including any human factors issues, should be given to the 'transitional period'. In addition, the activities utilised to manage these issues should be integrated into the change management plan.

GM 2 to 3.3.2

Issue 4 Revision 5	Oct 2025	Page 29 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

The organisation's management of change process should take into account the following three considerations:

- (a) Criticality: Criticality assessments determine the systems, equipment or activities that are essential to the safe operation of aircraft. While criticality is normally assessed during the system design process, it is also relevant during a situation of change. Systems, equipment and activities that have higher safety criticality should be reviewed following change to make sure that corrective actions can be taken to control potentially emerging safety risks.
- (b) Stability of systems and operational environments: Changes may be planned and under the direct control of the organisation. Such changes include organisational growth or contraction, the expansion of products or services delivered, or the introduction of new technologies. Unplanned changes may include those related to economic cycles, labour unrest, as well as changes to the political, regulatory or operating environments.
- (c) Past performance: Past performance of critical systems and trend analyses in the safety assurance process should be employed to anticipate and monitor safety performance under situations of change. The monitoring of past performance will also assure the effectiveness of

corrective actions taken to address safety deficiencies identified as a result of audits, evaluations, investigations or reports.

3.3.3 Continuous Improvement of the SMS

The organisation shall monitor and assess the effectiveness of its SMS processes to enable continuous improvement of the SMS.

AMC to 3.3.3

Monitoring and assessment activities conducted for the purpose of this requirement should be conducted by persons that are functionally independent of the technical processes being evaluated.

GM to 3.3.3

Importance of continuous improvements:

Issue 4 Revision 5	Oct 2025	Page 30 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (a) Continuous improvement is measured through the monitoring of an organisation's Safety Performance Indicators, evaluations and independent SMS audits and is related to the maturity and effectiveness of an SMS. Safety assurance processes support improvements to the SMS through continual verification and follow-up actions.
- (b) Internal evaluations/ audits involve assessment of the organisation's aviation activities that can provide information useful to the organisation's decision-making processes.
- (c) The internal evaluation function includes evaluation of safety management functions, policymaking, safety risk management, safety assurance and safety promotion throughout the organisation.

3.4 COMPONENT 4: SAFETY PROMOTION

3.4.1 Training and education

- (a) The organisation shall develop and maintain a safety training programme that ensures that personnel are trained and competent to perform their duties relevant to the organisation's SMS.
- (b) The scope of the safety training shall be appropriate to the individual's involvement in the SMS.

AMC to 3.4.1

The following are elements that should be established and maintained as part of the Safety training programme:

- (a) Safety training and education curricula should consist of the following:
 - 1) organisational safety policies, goals and objectives;
 - 2) organisational safety roles and responsibilities related to safety;
 - 3) basic safety risk management principles;
 - 4) safety reporting systems;
 - 5) safety management support (including evaluation and audit programmes);
 - 6) lines of communication for dissemination of safety information; and
 - 7) initial indoctrination and, if required, recurrent training requirements.
- (b) Training requirements should be consistent with the needs and complexity of the organisation.

Issue 4 Revision 5	Oct 2025	Page 31 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (c) Training procedures should specify initial and, if required, recurrent safety training standards for operational personnel, managers and supervisors, senior managers and the Accountable Manager. The SMS training documentation should also specify responsibilities for development of training content and scheduling.
- (d) Safety training for senior managers should include content related to compliance with national and organisational safety requirements, allocation of resources and active promotion of the SMS including effective interdepartmental safety communication. In addition, safety training for senior managers should include material on establishing Safety Performance Targets and alert levels.
- (e) The Accountable Manager training should be at a high level providing an understanding of the SMS and its relationship to the organisation's overall business strategy.

3.4.2 Safety Communication

The organisation shall develop, document, implement and maintain formal means for safety communication that:

- (a) ensures personnel are aware of the SMS to a degree commensurate with their positions in a timely manner;
- (b) conveys safety-critical information in a timely manner;
- (c) explains why particular safety actions are taken; and
- (d) explains why safety procedures are introduced or changed.

GM to 3.4.2

Safety communication is an essential foundation for the development and maintenance of an adequate safety culture. The modes of communication may include:

- (a) newsletters;
- (b) presentations;
- (c) safety notices;
- (d) safety awareness posters;
- (e) lectures;
- (f) workshops; and
- (g) workplace safety oriented meetings between staff and the Accountable Manager or Senior Managers.

Issue 4 Revision 5	Oct 2025	Page 32 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

4. APPENDIX 1: SAFETY CULTURE AND JUST CULTURE

"Safety Culture is the set of enduring values and attitudes regarding safety issues, shared by every member of every level of an organization. Safety Culture refers to the extent to which every individual and every group of the organization is aware of the risks and unknown hazards induced by its activities; is continuously behaving so as to preserve and enhance safety; is willing and able to adapt itself when facing safety issues; is willing to communicate safety issues; and consistently evaluates safety related behaviour."

To support the assessment and management of Safety Culture, the six main components (called Characteristics) of Safety Culture are described:

- 1. Commitment
- 2. Behaviour
- 3. Awareness
- 4. Adaptability
- 5. Information
- 6. Justness

Just Culture is clearly an element of [a Safety Culture framework] (in the Justness characteristic or component).

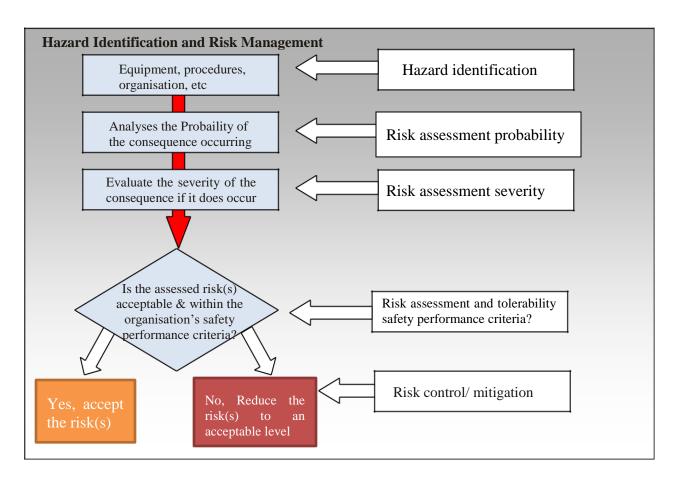
Just culture is defined as: "a culture in which front line operators or others are not punished for actions, omissions or decisions taken by them that are commensurate with their experience and training, but where gross negligence, wilful violations and destructive acts are not tolerated."

An important part of a good just culture depends on how an organization oversees safety reports which may contain information about potentially unsafe/risky actions, either directly or indirectly taken by its employees. These may be the result of slips, common mistakes, technical failures or can even be related to systematic training issues. When reviewing such occurrences, consideration should be given as to whether the person's actions were reasonable. It could be that the actions taken were the same as what another competent person may have reasonably taken in a similar situation. Part of this is ensuring that the right level of expertise is available to help understand the context and situation surrounding what occurred. Employees at all levels should be encouraged to report any occurrences or issues that may affect safety and be open to learning from these.

A safety culture and a just culture should be fostered. However, in the rare cases, in which gross negligence, wilful violations or destructive acts are apparent, such acts/behaviours should not be tolerated. Through following of clear and proper procedures, anyone involved in cases of possible gross negligence should receive fair treatment and proportionate remedial action to prevent a reoccurrence.

Issue 4 Revision 5	Oct 2025	Page 33 of 64
--------------------	----------	---------------

5. APPENDIX 2: HAZARD IDENTIFICATION AND RISK





KCASR 19 Safety Management – Part 1

6. APPENDIX 3: SAFETY RISK ASSESSMENT MATRIX

The following is an example of safety risk assessment matrix.

		Risk Severity				
Risk Probability		Catastrophic	Hazardous	Major	Minor	Negligible
MSK 1 TODUDI	iity	A	В	С	D	E
Frequent	5	5A	5B	5C	5D	5E
Occasional	4	4 A	4 B	4C	4D	4E
Remote	3	3A	3B	3C	3D	3E
Improbable	2	2A	2B	2C	2D	2 E
Extremely improbable	1	1A	1B	1C	1D	1E

Safety risk probability table

Risk Probability	Meaning	Value
Frequent	Likely to occur many times (has occurred frequently)	5
Occasional	Likely to occur sometimes (has occurred infrequently)	4
Remote	Unlikely to occur, but possible (has occurred rarely)	3
Improbable	Very unlikely to occur (not known to have occurred)	2
Extremely improbable	Almost inconceivable that the event will occur	1

Using this matrix, risks can be categorised according to an assessment of their potential severity and probability. Based on this matrix example, risks reflected as being unacceptable (red and yellow categories) must be mitigated so as to reduce their severity and/or probability. The organisation should consider suspension of any activities that continue to expose the organisation to intolerable safety risks in the absence of mitigating actions that reduce the risks to an acceptable level (green).

Issue 4	Revision 5	Oct 2025	Page 35 of 64
---------	------------	----------	---------------

KCASR 19 Safety Management – Part 1

7. APPENDIX 4: EMERGENCY RESPONSE PLAN CONTENT

An ERP would normally be documented in the format of a manual that should set out the responsibilities, roles and actions of the various agencies and personnel involved in dealing with specific emergencies. An ERP should take account of such considerations as:

- (a) Governing policies. The ERP should provide direction for responding to emergencies, such as governing laws and regulations for investigations, agreements with local authorities, company policies and priorities.
- (b) *Organisation*. The ERP should outline management's intentions with respect to the responding organisations by:
 - 1) designating who will lead and who will be assigned to the response teams;
 - 2) defining the roles and responsibilities of personnel assigned to the response teams;
 - 3) clarifying the reporting lines of authority;
 - 4) setting up an Emergency Management Centre (EMC);
 - 5) establishing procedures for receiving a large number of requests for information, especially during the first few days after a major accident;
 - 6) designating the corporate spokesperson for dealing with the media;
 - 7) defining what resources will be available, including financial authorities for immediate activities;
 - 8) designating the company representative to any formal investigations undertaken by State officials;
 - 9) defining a call-out plan for key personnel.

An organisational chart could be used to show organisational functions and communication relationships.

- (c) *Notifications*. The plan should specify who in the organisation should be notified of an emergency, who will make external notifications and by what means. The notification needs of the following should be considered:
 - 1) management;
 - 2) State authorities (search and rescue, the regulatory authority, the accident investigation board, etc.);
 - 3) local emergency response services (aerodrome authorities, fire fighters, police, ambulance, medical agencies, etc.);
 - 4) relatives of victims (a sensitive issue that, in many States, is handled by the police);

Issue 4 Revision 5	Oct 2025	Page 36 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

- 5) company personnel;
- 6) media; and
- 7) legal, accounting, insurers, etc.
- (d) *Initial response*. Depending on the circumstances, an initial response team may be dispatched to the accident or crisis site to augment local resources and oversee the organisation's interests. Factors to be considered for such a team include:
 - 1) Who should lead the initial response team?
 - 2) Who should be included on the initial response team?
 - 3) Who should speak for the organisation at the accident site?
 - 4) What would be required by way of special equipment, clothing, documentation, transportation, accommodation, etc.?
- (e) Additional assistance. Employees with appropriate training and experience can provide useful support during the preparation, exercising and updating of an organisation's ERP. Their expertise may be useful in planning and executing such tasks as:
 - 1) acting as passengers or customers in exercises;
 - 2) handling survivors or external parties;
 - 3) dealing with next of kin, authorities, etc.
- (f) Emergency Management Centre (EMC). An EMC (normally on standby mode) may be established at the organisation's headquarters once the activation criteria have been met. In addition, a command post (CP) may be established at or near the crisis site. The ERP should address how the following requirements are to be met:
 - 1) staffing (perhaps for 24 hours a day, 7 days per week, during the initial response period);
 - 2) communications equipment (telephones, facsimile, Internet, etc.);
 - 3) documentation requirements, maintenance of emergency activity logs;
 - 4) impounding related company records;
 - 5) office furnishings and supplies; and
 - 6) reference documents (such as emergency response checklists and procedures, company manuals, aerodrome emergency plans and telephone lists).

The services of a crisis Centre may be contracted from an airline or other specialist organisation to look after the Organisation's interests in a crisis away from home base. Company personnel would normally supplement such a contracted Centre as soon as possible.

Issue 4	Revision 5	Oct 2025	Page 37 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (g) *Records*. In addition to the organisation's need to maintain logs of events and activities, the organisation will also be required to provide information to any State investigation team. The ERP should address the following types of information required by investigators:
 - 1) all relevant records about the product or service concerned;
 - 2) lists of points of contact and any personnel associated with the occurrence;
 - 3) notes of any interviews (and statements) with anyone associated with the event;
 - 4) any photographic or other evidence.
- (h) Accident site. For a major accident, representatives from many jurisdictions have legitimate reasons for accessing the site: for example, police (MOI); fire fighters; medics; aerodrome authorities; coroners (medical examining officers) to deal with fatalities; State accident investigators; relief agencies such as the Red Crescent and even the media. Although coordination of the activities of these stakeholders is the responsibility of the State's police (MOI) and/or investigating authority, the Organisation should clarify the following aspects of activities at the accident site:
 - 1) nominating a senior company representative at the accident site if:
 - i. at home base:
 - ii. away from home base;
 - iii. offshore or in a foreign State;
 - 2) management of surviving victims;
 - 3) the needs of the relatives of victims;
 - 4) security of the wreckage;
 - 5) handling of human remains and personal property of the deceased;
 - 6) preservation of evidence;
 - 7) provision of assistance (as required) to the investigation authorities;
 - 8) removal and disposal of the wreckage; etc.
- (i) *News media*. How the company responds to the media may affect how well the company recovers from the event. Clear direction is required regarding, for example:
 - 1) what information is protected by statute (FDR data, CVR and ATC recordings, witness statements, etc.);
 - 2) who may speak on behalf of the parent organisation at head office and at the accident site (public relations manager, chief executive officer or other senior executive, manager, owner);

Issue 4	Revision 5	Oct 2025	Page 38 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- 3) prepared statements for immediate response to media queries;
- 4) what information may be released (what should be avoided);
- 5) the timing and content of the company's initial statement;
- 6) provisions for regular updates to the media.
- (j) Formal investigations. Guidance for company personnel dealing with State of Kuwait accident investigators and police (MOI) should be provided.
- (k) *Family assistance*. The ERP should also include guidance on the organisation's approach to assisting crisis victims or customer organisations. This guidance may include such things as:
 - 1) State requirements for the provision of assistance services;
 - 2) travel and accommodation arrangements to visit the crisis site;
 - 3) programme coordinator and point(s) of contact for victims/customers;
 - 4) provision of up-to-date information;
 - 5) temporary assistance to victims or customers.
- (l) *Post-occurrence review*. Direction should be provided to ensure that, following the emergency, key personnel carry out a full debrief and record all significant lessons learned which may result in amendments to the ERP and associated procedures.



KCASR 19 Safety Management – Part 1

8. APPENDIX 5: SMS IMPLEMENTATION PLAN

This appendix includes typical guidance of a SMS implementation plan for Organisations that are transitioning from traditional safety programme in to an integrated SMS or for new Organisations.

A system review and description of the SMS framework and interface with existing systems and processes is the first step in defining the scope and applicability of the SMS. This can be achieved by conducting a gap analysis, which provides an opportunity to identify any gaps related to the organisation's SMS components and elements, including the interfaces within the organisation. The gap analysis facilitates development of an SMS implementation plan by identifying the gaps that must be addressed to fully implement an SMS. Once the gap analysis has been completed and fully documented, the resources and processes that have been identified as missing or inadequate will form the basis of the SMS implementation plan.

The SMS Implementation Plan consists of four implementation phases with each phase associated with various elements (or sub-elements) as per the KCASR framework.

Phase 1

- (a) The objective of Phase 1 of SMS implementation is to provide a blueprint of how the SMS requirements can be met and integrated into the organisation's control systems, as well as an accountability framework for the implementation of the SMS.
- (b) During Phase 1, basic planning and assignment of responsibilities are established. Central to Phase 1 is the gap analysis. From the gap analysis, an organisation can determine the status of its existing safety management processes and can begin planning for the development of further safety management processes. The significant output of Phase 1 is the SMS implementation plan. (ICAO Doc 9859 SMS Acceptance provides further guidance).
- (c) At the completion of Phase 1, the following activities should be finalized in such a manner that meets the expectations of the Kuwait DGCA, as set forth in relevant requirements and guidance material:

Management commitment and responsibility

- (a) Identify the accountable executive and the safety accountabilities of managers. This activity is based on Elements 2.1.1 and 2.1.2 of the SMS frameworks.
- (b) Establish an SMS implementation team. The team should be comprised of representatives from the relevant departments. The team's role is to drive the SMS implementation from the planning stage to its final implementation. Other functions of the implementation team will include but not be limited to:

Issue 4	Revision 5	Oct 2025	Page 40 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- 1) developing the SMS implementation plan;
- 2) ensuring the adequate SMS training and technical expertise of the team in order to effectively implement the SMS elements and related processes; and
- 3) monitoring of and reporting on the progress of the SMS implementation, providing regular updates and coordinating with the SMS accountable executive.
- (c) Define the scope of the organisation's activities (departments/divisions) to which the SMS will be applicable. The scope of the organisation's SMS applicability will subsequently need to be described in the SMS document as appropriate. This activity is based on Element 2.1.5 of the SMS framework. Guidance on the system description is provided in 2.1.5 of this chapter.
- (d) Conduct a gap analysis of the organisation's current systems and processes in relation to the KCASR

SMS framework requirements (or the relevant SMS regulatory requirements).

Phase 1 (for application)	Phase 2 (up to 12 months)	Phase 3 (up to 18 months)	Phase 4 (up to 18 months)
1. SMS Element 3.1.1:	1. SMS Element 3.1.1:	1. SMS Element 3.2.1:	1. SMS Element 3.1.1:
a) identify the SMS accountable executive;	a) establish the safety policy and objectives,	a) establish a voluntary hazard reporting procedure.	a) enhance the existing
b) establish an SMS implementation team;	2. SMS Element 3.1.2:	2. SMS Element 3.2.2:	disciplinary procedure/ policy with due consideration of
c) define the scope of	a) define safety	a) establish safety risk management procedures.	unintentional errors or mistakes from deliberate or gross violations.
the SMS;	management responsibilities and	3. SMS Element 3.3.1:	violations.
d) perform an SMS gap analysis.	accountabilities across relevant departments of the organisation;	a) establish occurrence reporting and investigation	2. SMS Element 3.2.1:
2. SMS Element 3.1.5:		procedures;	a) integrate hazards
a) develop an SMS implementation plan.	b) establish an SMS/safety	b) establish a safety data collection and	identified from occurrence investigation reports
3. SMS Element 3.1.3:	coordination mechanism/committee;	processing system for high- consequence outcomes;	with the voluntary hazard reporting
a) establish a key person/office responsible for the administration and	c) establish departmental/divisional SAGs where applicable.	c) develop high- consequence SPIs and associated targets and alert settings.	b) integrate hazard identification and risk management

Issue 4 Revision 5	Oct 2025	Page 41 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

maintenance of the	2 CMC El 2 1 4		procedures with the
SMS.	3. SMS Element 3.1.4:	-	subcontractor's or
4. SMS Element 3.4.1:	a) establish an		customer's SMS where applicable.
a) establish an SMS	emergency response plan.	4. SMS Element 3.3.2:	11
training programme for personnel, with	4. SMS Element 3.1.5:		
priority for the SMS implementation team.	a) initiate progressive development of an	a) establish a management of change	3. SMS Element 3.3.1:
5. SMS Element 3.4.2:	SMS document/manual and other supporting documentation.	procedure that includes safety risk assessment.	a) enhance the safety data collection and
	decimentation	5. SMS Element 3.3.3:	processing system to include lower- associated targets/alert
a) initiate SMS/safety communication			settings
channels. SMS		a) establish an internal quality audit	b) develop lower consequence SPIs and
Element 3.3.3:		programme;	associated targets/alert settings
		b) establish an external	a) establish SMS audit
		quality audit programme	programmes or integrate them into existing internal and
			external audit
			b) establish other
			operational SMS review/survey
			programmes where appropriate
			5. SMS Element 3.4.1:
			a) ensure that the SMS raining programme for all relevant personnel has been completed
			6. SMS Element 3.4.2:
			a) promote safety information sharing and exchange internally and externally.

SMS Element 3.1.5: SMS documentation (Phases 1 to 4)

SMS Elements 3.4.1 and 3.4.2: SMS training, education and communication (Phases 1 and thereafter)

Note 1: The implementation period indicated is an approximation. The actual implementation period is dependent on the scope of actions required for each element allocated and the size/complexity of the organisation.

Issue 4	Revision 5	Oct 2025	Page 42 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

Note 2: The SMS element numbers indicated correspond to the KCASR SMS element numbers. Suffixes such as a), b) and c) indicate that the element has been subdivided to facilitate the phased implementation approach.

SMS implementation plan — Element 3.1.5

(a) Develop an SMS implementation plan on how the organisation will implement the SMS on the basis of the identified system and process gaps resulting from the gap analysis.

Appointment of key safety personnel — Element 3.1.3

- (a) Identify the key SMS person (safety/quality function) within the organisation who will be responsible for administering the SMS on behalf of the accountable executive.
- (b) Establish the safety services office.

Training and education — Element 3.4.1

- (a) Conduct a training needs analysis.
- (b) Organize and set up schedules for appropriate training of all staff according to their individual responsibilities and involvement in the SMS.
- (c) Develop safety training considering:
 - 1) initial (general safety) job-specific training; and
 - 2) recurrent training.
- (d) Identify the costs associated with training.
- (e) Develop a validation process that measures the effectiveness of training.
- (f) Establish a safety training records system.

Safety communication — **Element 3.4.2**

- (a) Initiate a mechanism or medium for safety communication.
- (b) Establish a means to convey safety information through any of:
 - 1) safety newsletters, notices and bulletins;
 - 2) websites;
 - 3) email;
 - 4) workshops, lectures, posters etc.

Issue 4 Revision 5	Oct 2025	Page 43 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

Phase 2

The objective of Phase 2 is to implement essential safety management processes, while at the same time correcting potential deficiencies in existing safety management processes. Most organisations will have some basic safety management activities in place at different levels of implementation. This phase aims at consolidating existing activities and developing those which do not yet exist.

Management commitment and responsibility — Element 3.1.1

- (a) Develop a safety policy.
- (b) Have the accountable executive sign the safety policy.
- (c) Communicate the safety policy throughout the organisation.
- (d) Establish a review schedule for the safety policy to ensure it remains relevant and appropriate to the organisation.
- (e) Establish safety objectives for the SMS by developing safety performance standards in terms of:
 - 1) Safety Performance Indicators;
 - 2) Safety Performance Targets and alert levels; and
 - 3) action plans.
- f) Establish the SMS requirements for subcontractors:
 - 1) establish a procedure to write SMS requirements into the contracting process; and
 - 2) establish the SMS requirements in the bidding documentation.

Safety accountabilities — Element 3.1.2

- (a) Define safety accountabilities and communicate them throughout the organisation.
- (b) Establish the Safety Action Group (SAG).
- (c) Establish the safety/SMS coordination committee.
- (d) Define clear functions for the SAG and the safety/SMS coordination committee.
- (e) Establish lines of communication between the safety services office, the accountable executive, the SAG and the safety/SMS coordination committee.
- (f) Appoint the accountable executive as the chairperson of the safety/SMS coordination committee.
- (g) Develop a schedule of meetings for the safety services office to meet with the safety/SMS coordination committee and SAG as needed.

Issue 4	Revision 5	Oct 2025	Page 44 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

Coordination of emergency response planning — Element 3.1.4

- (a) Review the outline of the ERP related to the delegation of authority and assignment of emergency responsibilities.
- (b) Establish coordination procedures for action by key personnel during the emergency and the return to normal operations.
- (c) Identify external entities that will interact with the organisation during emergency situations.
- (d) Assess the respective ERPs of the external entities.
- (e) Establish coordination between the different ERPs.
- (f) Incorporate information about the coordination between the different ERPs in the organisation's SMS documentation.

Note: Refer to <u>APPENDIX 4</u> for further guidance on ERP.

SMS documentation — Element 3.1.5

- (a) Create an SMS documentation system to describe, store, retrieve and archive all SMS-related information and records by:
 - 1) developing an SMS document that is either a stand-alone manual or a distinct section within an existing controlled organisation manual (refer to <u>APPENDIX 7</u> for guidance on developing an SMS manual);
 - 2) establishing an SMS filing system to collect and maintain current records relating to the organisation's ongoing SMS processes;
 - maintaining records to provide a historical reference as well as the current status of all SMS processes such as: a hazard register; an index of completed safety assessments; SMS/safety training records; current SPIs and associated safety objectives; internal SMS audit reports; SMS/safety committee meeting minutes and the SMS implementation plan;
 - 4) maintaining records that will serve as evidence of the SMS operation and activities during internal or external assessment or audit of the SMS.

Phase 3

The objective of Phase 3 is to establish safety risk management processes. Towards the end of Phase 3, the organisation will be ready to collect safety data and perform safety analyses based on information obtained through the various reporting systems.

Issue 4 Revision 5	Oct 2025	Page 45 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

Hazard identification — Element 3.2.1

- (a) Establish a voluntary reporting procedure.
- (b) Establish a programme/schedule for systematic review of all applicable aviation safety-related processes/equipment that are eligible for the HIRM process.
- (c) Establish a process for prioritization and assignment of identified hazards for risk mitigation.

Safety risk assessment and mitigation — Element 3.2.2

- (a) Establish a safety risk management procedure, including its approval and periodic review process.
- (b) Develop and adopt safety risk matrices relevant to the organisation's operational or production processes.
- (c) Include adopted safety risk matrices and associated instructions in the organisation's SMS or risk management training material.

Safety performance monitoring and measurement — Element 3.3.1

- (a) Establish an internal occurrence reporting and investigation procedure. This may include mandatory or major defect reports (MDR) where applicable.
- (b) Establish safety data collection, processing and analysis of high-consequence outcomes.
- (c) Establish high consequence safety indicators (SPIs/SPTs + monitoring)and their associated target and alert settings. Examples of high-consequence safety indicators are accident rates, serious incident rates and monitoring of high-risk non-compliance outcomes. Refer to <u>APPENDIX 6</u> for guidance on Safety Performance Indicators.
- d) Reach an agreement with the Kuwait DGCA on Safety Performance Indicators and Safety Performance Targets.

The management of change — Element 3.3.2

- (a) Establish a formal process for the management of change that considers:
 - 1) Change to the Organization's operating environment;
 - 2) Change to the SMS Interfaces with external organizations, external regulatory changes, economical changes and emerging risks.
 - 3) The vulnerability of systems and activities;
 - 4) The stability of systems and operational environments;
 - 5) Past performance;

Issue 4	Revision 5	Oct 2025	Page 46 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- 6) Regulatory, industry and technological changes.
- 7) Changes to the operating environment;
- 8) Changes in the key personal
- 9) Significant changes to staffing levels;
- 10) Significant restructure of the organisation; and
- 11) Physical changes (new facilities or base, aerodrome layout changes, etc.)
- (b) Ensure that management of change procedures address the impact on existing safety performance and risk mitigation records before implementing new changes.
- (c) Establish procedures to ensure that safety assessment of new aviation safety-related operations, processes and equipment are conducted (or accounted for) as applicable, before they are commissioned.

Continuous improvement of the SMS — Element 3.3.3

- (a) Develop forms for internal evaluations.
- (b) Define an internal audit process.
- (c) Define an external audit process.
- (d) Define a schedule for evaluation of facilities, equipment, documentation and procedures to be completed through audits and surveys.
- (e) Develop documentation relevant to operational safety assurance.

Phase 4

Phase 4 is the final phase of SMS implementation. This phase involves the mature implementation of safety risk management and safety assurance. In this phase operational safety assurance is assessed through the implementation of periodic monitoring, feedback and continuous corrective action to maintain the effectiveness of safety risk controls.

Management commitment and responsibility — Element 3.1.1

(a) Enhance the existing disciplinary procedure/policy with due consideration of unintentional errors/ mistakes from deliberate/gross violations.

Hazard identification — Element 3.2.1

(a) Integrate the hazards identified from occurrence investigation reports with the voluntary reporting system.

	Issue 4	Revision 5	Oct 2025	Page 47 of 64
--	---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (b) Integrate hazard identification and risk management procedures with the subcontractor or customer SMS where applicable.
- (c) If necessary, develop a process for prioritizing collected hazards for risk mitigation based on areas of greater need or concern. Refer to APPENDIX 3 and 4 for guidance.

Safety performance monitoring and measurement — Element 3.3.1

- (a) Enhance the safety data collection and processing system to include lower-consequence events.
- (b) Establish lower-consequence safety/quality indicators with target/alert level monitoring as appropriate(SPIs/SPTs + monitoring).
- (c) Reach an agreement with the Kuwait DGCA on lower-consequence Safety Performance Indicators and Safety Performance Target/alert levels.

Continuous improvement of the SMS — Element 3.3.3

- (a) Establish SMS audits or integrate them into existing internal and external audit programmes.
- (b) Establish other operational SMS review/survey programmes where appropriate.

Training and education — **Element 3.4.1**

(a) Complete an SMS training programme for all relevant personnel.

Safety communication — Element 3.4.2

(a) Establish mechanisms to promote safety information sharing and exchange internally and externally.

Issue 4	Revision 5	Oct 2025	Page 48 of 64
---------	------------	----------	---------------



9. APPENDIX 6: SAFETY PERFORMANCE INDICATOR (SPI) FOR ORGANISATION

a) Air operators

High-consequenc	High-consequence indicators			Lower-consequence indicators (event/activity-		
(occurrence/outcome-based)			based)			
Safety Performance Indicator	Alert level criteria	Target level criteria	Safety Performance Indicator	Alert level criteria	Target level criteria	
Air operator individual fleet monthly serious incident rate (e.g. per 1000 FH)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate	Operator combined fleet monthly incident rate (e.g. per 1 000 FH)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%)Improvem ent between each annual mean rate	
Air operator combined fleet monthly serious incident rate (e.g. per 1 000 FH)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate	Operator internal QMS/SMS annual audit LEI % or findings rate (findings per audit)	Consideratio n	Consideration	
Air operator engine IFSD incident rate (e.g. per 1 000 FH)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate	Operator voluntary hazard report rate (e.g. per 1 000 FH)	Consideratio n	Consideration	

Issue 4 Revision 5	Oct 2025	Page 49 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

Operator DGR	Average +	% (e.g. 5%)
incident report	1/2/3 SD	improvement between each
rate (e.g. per 1	(annual or 2	annual mean
000 FH)	yearly reset)	rate

b) Aerodrome operators

High-consequence indicators (occurrence/outcome- based)			Lower-consequence indicators (event/activity-based)		
Safety Performance	Alert level	Target level	Safety Performance	Alert level	Target level
Indicator	criteria	criteria	Indicator	criteria	criteria
Aerodrome operator quarterly ground accident/serious incident rate involving any aircraft (e.g. per 10 000 ground movements)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate	annual audit LEI % or	rionely, enough)	% (e.g. 5%) improvement between each annual mean rate
Aerodrome operator quarterly runway excursion incident rate involving an aircraft (e.g. per 10 000 departures)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate		vearly reset)	% (e.g. 5%) improvement between each annual mean rate
Aerodrome operator quarterly runway incursion incident rate involving any aircraft (e.g. per 10 000 departures)	Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate		vearly recet)	% (e.g. 5%) improvement between each annual mean rate
				Average + 1/2/3 SD (annual or 2 yearly reset)	% (e.g. 5%) improvement between each annual mean rate

Issue 4 Revision 5	Oct 2025	Page 50 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

c) ATS operator

		Lower-consequence indicators (event/activity-based)			
based)					
Safety Performance Indicator	Alert level criteria	Target level criteria	- · · · · · · · · · · · · · · · · · · ·	Alert level criteria	Target level criteria
ATS operator quarterly FIR serious incident rate involving any aircraft (e.g. per 100 000 flight movements)	Average + 1/2/3 SD (annual or 2		any aircraft (e.g. per	Average + 1/2/3 SD (annual or 2 yearly reset)	
ATS operator quarterly FIR TCAS RA incident rate — involving any aircraft (e.g. per 100.000 flight movements)	annual average	Assuming the Historical annual average rate is3, the possible target rate could be 2.	incident rate —	Average + 1/2/3 SD (annual or 2	
			ATS operator internal QMS/SMS annual audit LEI % or findings rate (findings per audit)	Consideration	Consideration



KCASR 19 Safety Management – Part 1

d) DOA, POA or MRO organisation

		Lower-consequence indicators (event/activity-based)			
Safety Performance Indicator		Target level criteria	Safety Performance Indicator	Alert level criteria	Target level criteria
MRO/POA quarterly rate of component technical warranty claims	Average + 1/2/3 SD (annual or 2 yearly reset)	•	MRO/POA/DOA internal QMS/SMS annual audit LEI % or findings rate (findings per audit)	Consideration	Consideration
POA/DOA quarterly rate of operational products which are the subject of ADs)/ASBs (per product line)	Consideration	Consideration	MRO/POA/DOA quarterly final inspection/testing failure/rejection rate (due to internal quality issues)	Consideration	Consideration
MRO/POA quarterly rate of component mandatory/major defect reports raised (due to internal quality issues)	Consideration	Consideration	MRO/POA/DOA voluntary hazard report rate (per operational personnel per quarter)	Consideration	Consideration

10. APPENDIX 7: MINIMUM SMS MANUAL CONTENT

1. Document control

Describe how the manual(s) will be kept up to date and how the organisation will ensure that all personnel involved in safety-related duties have the most current version.

- (a) Hard copy or controlled electronic media and distribution list.
- (b) The correlation between the SMS manual and other existing manuals such as the maintenance control manual (MCM) or the operations manual.
- (c) The process for periodic review of the manual and its related forms/documents to ensure their continuing suitability, adequacy and effectiveness.
- (d) The manual's administration, approval and regulatory acceptance process.

Cross-reference documents.

Quality manual, engineering manual, etc.

2. SMS regulatory requirements

Address current SMS regulations and guidance material for necessary reference and awareness by all concerned.

- (a) Spell out the current SMS regulations/standards. Include the compliance timeframe and advisory material references as applicable.
- (b) Where appropriate, elaborate on or explain the significance and implications of the regulations to the organisation.
- (c) Establish a correlation with other safety-related requirements or standards where appropriate.

Cross-reference documents.

SMS regulation/requirement references, SMS guidance document references, etc.

3. Scope and integration of the Safety Management System

Describe the scope and extent of the organisation's aviation-related operations and facilities within which the SMS will apply. The scope of the processes, equipment and operations deemed eligible for the organisation's hazard identification and risk management (HIRM) programme should also be addressed.

- (a) Spell out the nature of the organisation's aviation business and its position or role within the industry as a whole.
- (b) Identify the major areas, departments, workshops and facilities of the organisation within which the SMS will apply.
- (c) Identify the major processes, operations and equipment which are deemed eligible for the organisation's HIRM programme, especially those which are pertinent to aviation safety.

Issue 4	Revision 5	Oct 2025	Page 53 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

If the scope of the HIRM-eligible processes, operations and equipment is too detailed or extensive, it may be controlled under a supplementary document as appropriate.

- (d) Where the SMS is expected to be operated or administered across a group of interlinked organisations or contractors, define and document such integration and associated accountabilities as applicable.
- (e) Where there are other related control/management systems within the organisation, such as QMS, OSHE and SeMS, identify their relevant integration (where applicable) within the aviation SMS.

Cross-reference documents.

Quality manual, engineering manual, etc

4. Safety policy

Describe the organisation's intentions, management principles and commitment to improving aviation safety in terms of the product or Organisation. A safety policy should be a short description similar to a mission statement.

- (a) The safety policy should be appropriate to the size and complexity of the organisation.
- (b) The safety policy states the organisation's intentions, management principles and commitment to continuous improvement in aviation safety.
- (c) The safety policy is approved and signed by the Accountable Manager.
- (d) The safety policy is promoted by the Accountable Manager and all other managers.
- (e) The safety policy is reviewed periodically.
- (f) Personnel at all levels are involved in the establishment and maintenance of the Safety Management System.
- (g) The safety policy is communicated to all employees with the intent that they are made aware of their individual safety obligations.

Cross-reference documents.

OSHE safety policy, etc.

5. Safety objectives

Describe the safety objectives of the organisation. The safety objectives should be a short statement that describes in broad terms what the organisation hopes to achieve. *Criteria*

(a) The safety objectives have been established.

	Issue 4	Revision 5	Oct 2025	Page 54 of 64
--	---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (b) The safety objectives are expressed as a top-level statement describing the organisation's commitment to achieving safety.
- (c) There is a formal process to develop a coherent set of safety objectives.
- (d) The safety objectives are publicized and distributed.
- (e) Resources have been allocated for achieving the objectives.
- (f) The safety objectives are linked to safety indicators to facilitate monitoring and measurement where appropriate.

Cross-reference documents.

Safety Performance Indicators document, etc.

6. Roles and responsibilities

Describe the safety authorities, responsibilities and accountabilities for personnel involved in the SMS.

- (a) The Accountable Manager is responsible for ensuring that the Safety Management System is properly implemented and is performing to requirements in all areas of the organisation.
- (b) An appropriate safety manager (office), safety committee or Safety Action Groups have been appointed as appropriate.
- (c) Safety authorities, responsibilities and accountabilities of personnel at all levels of the organisation are defined and documented.
- (d) All personnel understand their authorities, responsibilities and accountabilities with regard to all safety management processes, decisions and actions.
- (e) An SMS organisational accountabilities diagram is available.

Cross-reference documents.

Company exposition manual, SOP manual, administration manual, etc.

7. Safety reporting

A reporting system should include both reactive (accident/incident reports, etc.) and proactive/predictive (hazard reports). Describe the respective reporting systems. Factors to consider include: report format, confidentiality, addressees, investigation/evaluation procedures, corrective/preventive actions and report dissemination.

Criteria

Issue 4 Revision 5 Oct 2025	Page 55 of 64
-----------------------------	---------------



KCASR 19 Safety Management – Part 1

- (a) The organisation has a procedure that provides for the capture of internal occurrences including accidents, incidents and other occurrences relevant to SMS.
- (b) A distinction is to be made between mandatory reports (accidents, serious incidents, major defects, etc.), which are required to be notified to the Kuwait DGCA, and other routine occurrence reports, which remain within the organisation.
- (c) There is also a voluntary and confidential hazard/occurrence reporting system, incorporating appropriate identity/data protection as applicable.
- (d) The respective reporting processes are simple, accessible and commensurate with the size of the organisation.
- (e) High-consequence reports and associated recommendations are addressed to and reviewed by the appropriate level of management.
- (f) Reports are collected in an appropriate database to facilitate the necessary analysis.

Cross-reference documents.

8. Hazard identification and risk assessment

Describe the hazard identification system and how such data are collated. Describe the process for the categorization of hazards/risks and their subsequent prioritization for a documented safety assessment. Describe how the safety assessment process is conducted and how preventive action plans are implemented.

- (a) Identified hazards are evaluated, prioritized and processed for risk assessment as appropriate.
- (b) There is a structured process for risk assessment involving the evaluation of severity, probability, tolerability and preventive controls.
- (c) Hazard identification and risk assessment procedures focus on aviation safety as their fundamental context.
- (d) The risk assessment process utilizes worksheets, forms or software appropriate to the complexity of the organisation and operations involved.
- (e) Completed safety assessments are approved by the appropriate level of management.
- (f) There is a process for evaluating the effectiveness of the corrective, preventive and recovery measures that have been developed.
- (g) There is a process for periodic review of completed safety assessments and documenting their outcomes.

Cross-reference documents.

9. Safety performance monitoring and measurement

Describe the safety performance monitoring and measurement component of the SMS. This includes the organisation's SMS Safety Performance Indicators (SPIs).

	Issue 4	Revision 5	Oct 2025	Page 56 of 64	
--	---------	------------	----------	---------------	--



KCASR 19 Safety Management – Part 1

- (a) The formal process to develop and maintain a set of Safety Performance Indicators and their associated performance targets.
- (b) Correlation established between the SPIs and the organisation's safety objectives where applicable and the process of regulatory acceptance of the SPIs where required.
- (c) The process of monitoring the performance of these SPIs including remedial action procedure whenever unacceptable or abnormal trends are triggered.
- (d) Any other supplementary SMS or safety performance monitoring and measurement criteria or process.

Cross-reference documents.

10. Safety-related investigations and remedial actions

Describe how accidents/incidents/occurrences are investigated and processed within the organisation, including their correlation with the organisation's SMS hazard identification and risk management system.

- (a) Procedures to ensure that reported accidents and incidents are investigated internally.
- (b) Dissemination of completed investigation reports internally as well as to the Kuwait DGCA as applicable.
- (c) A process for ensuring that corrective actions taken or recommended are carried out and for evaluating their outcomes/effectiveness.
- (d) Procedure on disciplinary inquiry and actions associated with investigation report outcomes.
- (e) Clearly defined conditions under which punitive disciplinary action would be considered (e.g. illegal activity, recklessness, gross negligence or wilful misconduct).
- (f) A process to ensure that investigations include identification of active failures as well as contributing factors and hazards.
- (g) Investigation procedure and format provides for findings on contributing factors or hazards to be processed for follow-up action by the organisation's hazard identification and risk management system where appropriate.

Cross-reference documents.

11. Safety training and communication

Describe the type of SMS and other safety-related training that staff receive and the process for assuring the effectiveness of the training. Describe how such training procedures are documented.

Describe the safety communication processes/channels within the organisation.

Issue 4	Revision 5	Oct 2025	Page 57 of 64
---------	------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (a) The training syllabus, eligibility and requirements are documented.
- (b) There is a validation process that measures the effectiveness of training.
- (c) The training includes initial, recurrent and update training, where applicable.
- (d) The organisation's SMS training is part of the organisation's overall training programme.
- (e) SMS awareness is incorporated into the employment or indoctrination programme.
- (f) The safety communication processes/channels within the organisation.

Cross-reference documents.

12. Continuous improvement and SMS audit

Describe the process for the continuous review and improvement of the SMS.

- (a) The process for regular internal audit/review of the organisation's SMS to ensure its continuing suitability, adequacy and effectiveness.
- (b) Describe any other programmes contributing to continuous improvement of the organisation's SMS and safety performance, e.g. MEDA, safety surveys, ISO systems.

Cross-reference documents.

13. SMS records management

Describe the method of storing all SMS-related records and documents.

- (a) The organisation has an SMS records or archiving system that ensures the retention of all records generated in conjunction with the implementation and operation of the SMS.
- (b) Records to be kept include hazard reports, risk assessment reports, Safety Action Group/safety meeting notes, Safety Performance Indicator charts, SMS audit reports and SMS training records.
- (c) Records should be traceable for all elements of the SMS and be accessible for routine administration of the SMS as well as internal and external audits purposes.

Cross-reference documents

14. Management of change

Describe the organisation's process for managing changes that may have an impact on safety risks and how such processes are integrated with the SMS.

Issue 4 Revision 5	Oct 2025	Page 58 of 64
--------------------	----------	---------------



KCASR 19 Safety Management – Part 1

- (a) Procedures to ensure that substantial organisational or operational changes take into consideration any impact which they may have on existing safety risks.
- (b) Procedures to ensure that appropriate safety assessment is performed prior to introduction of new equipment or processes which have safety risk implications.
- (c) Procedures for review of existing safety assessments whenever there are changes to the associated process or equipment.

Cross-reference documents.

Company SOP relating to management of change, etc.

15. Emergency/contingency response plan

Describe the organisation's intentions regarding, and commitment to dealing with, emergency situations and their corresponding recovery controls. Outline the roles and responsibilities of key personnel. The Emergency Response Plan can be a separate document or it can be part of the SMS manual.

Criteria (as applicable to the organisation)

- (a) The organisation has an emergency plan that outlines the roles and responsibilities in the event of a major incident, crisis or accident.
- (b) There is a notification process that includes an emergency call list and an internal mobilization process.
- (c) The organisation has arrangements with other agencies for aid and the provision of emergency services as applicable.
- (d) The organisation has procedures for emergency mode operations where applicable.
- (e) There is a procedure for overseeing the welfare of all affected individuals and for notifying next of kin.
- (f) The organisation has established procedures for handling the media and insurance-related issues.
- (g) There are defined accident investigation responsibilities within the organisation.
- (h) The requirement for preservation of evidence, securing the affected area, and mandatory/governmental reporting is clearly stated.
- (i) There is emergency preparedness and response training for affected personnel.
- (j) A disabled aircraft or equipment evacuation plan has been developed by the organisation in consultation with aircraft/equipment owners, aerodrome operators or other agencies as applicable.
- (k) A procedure exists for recording activities during an emergency response.

Cross-reference documents.

ERP manual, etc.

Issue 4 Revision 5	Oct 2025	Page 59 of 64
--------------------	----------	---------------



11. APPENDIX 8: SAFETY RISK REGISTER FORM

(Operation / System			
	Hazard No.			
	Hazard Description			
	Safety Events	8		
(Causes or Threats)			
	Potential Outcomes			
	(and Associated			
	Consequence			
	Magnitudes)			
		Risk Controls (Ba	rriers and Mitigations)	<u> </u>
No.		Description	, in a surger of the surger of	Responsible
1	3			
2	88			
3	50			
4	3)			
5				
	Risk Asses	sment (Worst Fores	eeable Scenario – i.e. High	nest Risk)
	Hazard Frequency			1
(Outcome Likelihood			
Cor	sequence Severity			
	Risk			
	nagement Approval	Name:	Post:	Signature:
F	Relevant Previously			
Repo	orted Incident Data			
		Safety Performance	Monitoring Requirements	
No.		Description		Responsible
1		10		
2				
3				



KCASR 19 Safety Management – Part 1

12. APPENDIX 9: ROOT CAUSE ANALYSIS (RCA)

1. Introduction

Principles of RCA are closely related to those of risk assessment, particularly in terms of the thoroughness of the analysis. Both processes consider not simply the person involved in an issue, but all aspects of the organisation and each individual in that organisation where that person works. This approach has the premise that human error is a consequence rather than a deliberate action and, as such, proactive measures and continuous reform of different aspects of the processes and organization can address latent conditions in the system and increase the system's resistance to operational hazards. The term "latent conditions" refers to flawed procedures or organizational characteristics capable of creating hazards if the right conditions or actions occur.

Therefore, RCA treats errors as defects in the system rather than in an individual. RCA looks beyond the symptom to find the organizational defect that permitted an error to occur. The more thorough the analysis, the greater the probability you will uncover why the system deficiency could occur, and how your organization can respond definitively.

An effective RCA can be as simple as asking and answering a question (five times) about **why** something happened. A superficial analysis might have led to disciplinary action against one individual, which is indicative of a blame culture, and would, most likely, lead to a recurrence of the same error by a different individual.

2. Considerations for the RCA process

- (a) RCA should consider two major areas:
 - 1) Systems analysis plays an increasingly important role because of the increasing aviation complexity and variety of organisation activities, equipment and multicultural environment issues. Systems analysis emphasizes a harmonized approach to an enterprise, including specific written procedures and planning for all activities, clearly established authority and responsibilities, communications processes, and methods of measuring results, detecting system errors, and preventing recurrence. This harmonized approach recognizes the wide range of interrelated issues that are potentially associated with a problem in the system.
 - 2) Human factors analysis begins with the field organization itself where the occurrence happens (flight operations, ground operations, training, maintenance, ATS, etc. Each of those organisations
 - i. Defines the environment where staff conducts their tasks.
 - ii. Defines the policies and procedures that staff must follow and respect.

ssue 4 Revision 5	Oct 2025	Page 61 of 64
-------------------	----------	---------------



KCASR 19 Safety Management – Part 1

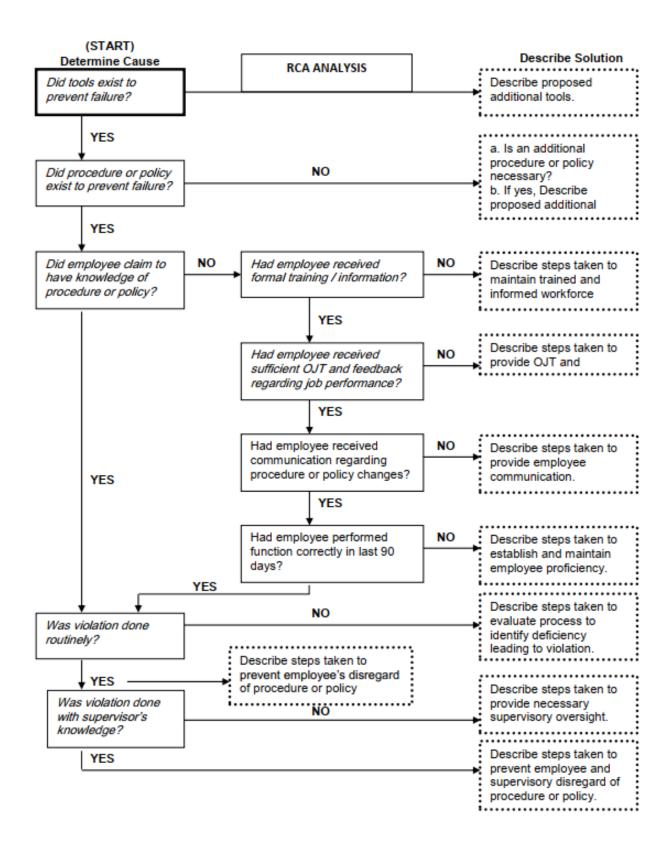
- iii. Allocates the resources that staff needs to achieve the safety and production goals.
- (b) Within the field organisation, human factors analysis looks at how their staffs communicate and perform in the work environment and then seeks to incorporate that knowledge into the design of equipment, processes, and organisations. This enhances safety and maximizes the human contribution, partly by designing systems to anticipate the inevitability of human error. The human factors discipline addresses a wider range of issues affecting how people interface with technology and the operational system; how people learn about new or changed equipment, technology, and documentation; and how people adapt to the general workplace environment.
- (c) Any organisation should be aware that knowledge gained from human factors can help to avoid operational staff errors, ensure that individuals' initial skill sets match task requirements, ensure that individuals maintain and improve their skills, and enhance the work environment.

Kuwait DGCA expects that any RCA consider a human factor is part of the investigation of individual events by any personnel designated to respond to safety related occurrences. Otherwise, data reviewed in a quality assurance process could be incomplete.

(d) A proper implementation of RCA, need a suitable and sustainable "Just Culture" environment, which should discourage the temptation to quick fixes by blaming operational and looking for corrective actions on unrealistic and unachievable human performance.

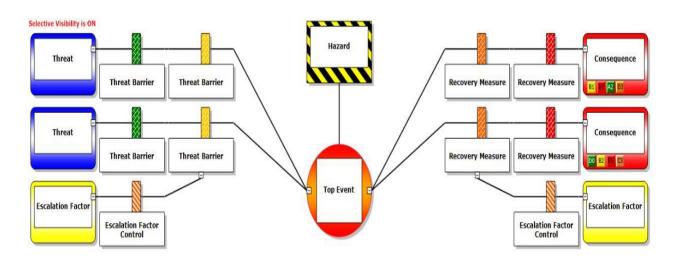


KCASR 19 Safety Management – Part 1



|--|

13. APPENDIX 10: EXAMPLE OF BOWTIE MODEL



Definitions related to the BowTie Model:

Threats A possible direct cause that will potentially release a hazard by producing a top event.

Consequences A potential event resulting from the release of a Hazard, which directly results in loss or damage.

Top Event A point in time which describes the release or loss of control over a Hazard (the undesired system state).

Hazard: The condition, object or activity with the potential of causing injuries to personnel, damage to equipment or structures, loss of material or reduction of ability to perform a prescribed function.

Escalation Factors: A condition that leads to increased risk by defeating or reducing the effectiveness of controls (a control decay mechanism).

Escalation Factor Control: A control that manages the conditions which reduce the effectiveness of other controls

Threat Barrier: Measures that are considered to reduce the probability of the top event to occur.

Recovery Measure: Measures that are considered to reduce the probability of the top event developing into a consequence as well as mitigating the severity of the consequence.

-END-

ingo i i ago i i i i	Issue 4	Revision 5	Oct 2025	Page 64 of 64
----------------------	---------	------------	----------	---------------

Affected Pages from Last Update

#	Page	Amendmant
1.	4	[TABLE] NPA 2019-Updated to ICAO annex 19 (2nd Addition) Oct 2025 Updated to ICAO annex 19 (Amendment 2)
2.	6	Acceptable Level of Safety Performance (ALoSP): The minimum level of safety performance of civil aviation in a State, as defined in its State safety programme, or of a organisation, as defined in its Safety Management System, expressed in terms of Safety Performance Targets and Safety Performance Indicators. Alert Level: An established level or criteria value outside of the normal operating range or out-of-control region that triggers a warning that an adjustment or evaluation is needed.
3.	10	Operators holding an RPAS operator certificate authorized to conduct international operations in accordance with KCASR 6 – Part IV (if applicable).
4.	10	Approved maintenance organizations providing services to operators in (j).
5.	10	Operators of certified heliports, in accordance with KCASR 14 – Volume II (Heliports).
6.	10	DGCA may, by regulatory instrument, require implementation of an SMS by other sectors where appropriate to support State safety risk management.
7.	27	Note 1: Kuwait DGCA selects and monitors SPTs/SPIs to manage and measure Kuwait's State safety performance under the SSPKuwait DGCA selects some of the SPTs in order to achieve and monitor the state of Kuwait Acceptable Level of Safety Performance under the State Safety Programme. In order for Kuwait DGCA to periodically monitor the SPTs, the organisations will be required to submit specific data, such as flight hours, engine hours, cycles, number of movements and other required information to Kuwait DGCA in a time and in a manner determined by Kuwait DGCA.
8.	46	Establish high consequence safety indicators (SPIs/SPTs + monitoring)(initial ALoSP) and their associated target and alert settings. Examples of high-consequence safety indicators are accident rates, serious incident rates and monitoring of high-risk non-compliance outcomes. Refer to APPENDIX 6 for guidance on Safety Performance Indicators.
9.	48	Establish lower-consequence safety/quality indicators with target/alert level monitoring as appropriate (SPIs/SPTs + monitoring)(mature ALoSP).