



ISSA Standards Manual

Effective 1 February 2019

2nd | Edition

NOTICE

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Table of Contents

ISSM Second Edition	DOC 1
Introduction	INT 1
1 Purpose	INT 1
2 Structure	INT 1
3 Sources for ISSM Standards and Recommended Practices (ISARPs).....	INT 1
4 Applicability of ISARPs	INT 1
5 Explanation of ISARPs.....	INT 2
6 Guidance Material.....	INT 4
7 Operational Assessment.....	INT 4
8 Safety Management Systems (SMS).....	INT 5
9 ISSA Documentation System.....	INT 5
10 English Language	INT 5
11 Manual Revisions	INT 6
12 Modification Status	INT 6
13 Conflicting Information	INT 6
14 Definitions and Abbreviations	INT 6
15 ISSA Documents and Forms	INT 6
16 Authority.....	INT 6
Section 1 — Organization and Management System (ORG)	ORG 1
1 Management and Control	ORG 1
1.1 Organization and Accountability	ORG 1
1.2 Management Commitment	ORG 6
1.3 Accountabilities, Authorities and Responsibilities.....	ORG 7
1.4 Communication	ORG 8

1.5	Management Review.....	ORG 9
1.6	Provision of Resources.....	ORG 11
1.7	(Intentionally Open).....	ORG 12
1.8	(Intentionally Open).....	ORG 12
2	Documentation and Records.....	ORG 12
2.1	Documentation System.....	ORG 12
2.2	Records System.....	ORG 14
3	Safety Management.....	ORG 15
3.1	Safety Risk Management.....	ORG 15
3.2	Safety Assurance.....	ORG 17
3.3	Flight Safety Analysis Program.....	ORG 19
3.4	Quality Assurance Program.....	ORG 22
3.5	Outsourcing Quality Control.....	ORG 26
4	Emergency Response.....	ORG 28
4.1	Emergency Response Plan.....	ORG 28
	Table 1.1–Documentation System Specifications.....	ORG 30
Section 2 — Flight Operations (FLT)		FLT 1
1	Management and Control.....	FLT 1
1.1–1.6	(Intentionally Open).....	FLT 1
1.7	Operations Manual.....	FLT 1
2	Training and Qualification.....	FLT 2
2.1	Training and Evaluation Program.....	FLT 2
2.2	Training Elements.....	FLT 4
2.3	Line Qualification.....	FLT 10



3	Line Operations	FLT 11
3.1	(Intentionally Open).....	FLT 11
3.2	(Intentionally Open).....	FLT 11
3.3	Flight Crew Qualifications.....	FLT 11
3.4	Flight Crew Scheduling	FLT 11
3.5–3.8	(Intentionally Open).....	FLT 12
3.9	Ground Handling	FLT 12
3.10	Airspace Rules	FLT 13
3.11	In-flight Operations	FLT 13
4	Operations Engineering Specifications	FLT 16
4.1–4.2	(Intentionally Open).....	FLT 16
4.3	Aircraft Systems and Equipment Specifications	FLT 16
Table 2.1–	(Intentionally Open).....	FLT 20
Table 2.2–	Operations Manual (OM) Content Specifications	FLT 21
Table 2.3 and Table 2.4–	(Intentionally Open).....	FLT 23
Table 2.5–	Route and Airport Knowledge Requirements	FLT 24
Section 3 — Operational Control and Flight Dispatch (DSP)		DSP 1
1	Management and Control.....	DSP 4
1.1–1.2	(Intentionally Open).....	DSP 4
1.3	Authorities and Responsibilities	DSP 4
1.4–1.6	(Intentionally Open).....	DSP 8
1.7	Operations Manual.....	DSP 8
2	Training and Qualification.....	DSP 9
2.1	Training and Evaluation Program.....	DSP 9

3	Line Operations	DSP 10
3.2	(Intentionally Open)	DSP 10
4	Operational Control Requirements and Specification	DSP 11
4.1–4.2	(Intentionally Open)	DSP 11
	Table 3.1–Operational Control Personnel	DSP 13
	Table 3.2–Operations Manual (OM) Content Specifications	DSP 15
	Table 3.3 and Table 3.4–(Intentionally Open)	DSP 17
	Table 3.5–Competencies of Operational Control	DSP 18
Section 4 — Aircraft Engineering and Maintenance (MNT)		MNT 1
1	Management and Control	MNT 1
1.1–1.2	(Intentionally Open)	MNT 1
1.3	Maintenance Program	MNT 1
1.4–1.6	(Intentionally Open)	MNT 3
1.7	Maintenance Management Manual (MMM)	MNT 4
2	Maintenance Control	MNT 6
2.1	Control System	MNT 6
2.2	Maintenance Planning	MNT 6
2.3	Parts Installation	MNT 6
2.4	Deferred Maintenance	MNT 8
2.5	Continuing Airworthiness	MNT 8
2.6	Repairs and Modifications	MNT 9
2.7	Defect Recording and Control	MNT 9



Table of Contents

3	Technical Records	MNT 10
3.1	Aircraft Maintenance Records.....	MNT 10
3.2	Aircraft Technical Log (ATL)	MNT 10
3.3	(Intentionally Open)	MNT 11
3.4	Airworthiness Directives	MNT 11
4	Maintenance Organizations	MNT 11
4.1	Approval.....	MNT 12
4.2	(Intentionally Open)	MNT 13
4.3	Quality Assurance.....	MNT 13
4.4	(Intentionally Open)	MNT 14
4.5	Training Program	MNT 14
4.6–4.8	(Intentionally Open)	MNT 14
4.9	Procedures Manual.....	MNT 15
4.10	Maintenance Release	MNT 17
4.11	Tooling and Calibration	MNT 18
	Table 4.1–Maintenance Program Specifications	MNT 19
	Table 4.2–(Intentionally Open)	MNT 20
	Table 4.3–Maintenance Management Manual Content Specifications.....	MNT 21
	Table 4.4 and 4.5–(Intentionally Open)	MNT 22
	Table 4.6–Aircraft Technical Log (ATL) Specifications	MNT 23
	Table 4.7–Quality Assurance Program Specifications and Control Processes.....	MNT 24
	Table 4.8–(Intentionally Open)	MNT 25
	Table 4.9–Maintenance Procedures Manual Content Specifications	MNT 26
	Table 4.10–Tooling and Calibration Program Specifications	MNT 27

Section 5 — Cabin Operations (CAB)	CAB 1
1 Management and Control	CAB 1
1.1–1.5 (Intentionally Open)	CAB 1
1.6 Operations Manual	CAB 1
2 Training and Qualification	CAB 2
2.1 Training Program	CAB 2
3 Line Operations	CAB 4
3.1 (Intentionally Open)	CAB 4
3.2 Cabin Crew Policies and Procedures	CAB 4
Table 5.1—Operations Manual Content Specifications	CAB 6
Section 6 — Ground Handling Operations (GRH)	GRH 1
1 Management and Control	GRH 1
1.1–1.5 (Intentionally Open)	GRH 1
1.6 Operational Manuals	GRH 1
2 Training and Qualification	GRH 2
2.1 Training Program	GRH 2
2.2 Program Elements	GRH 3
3 Ground Handling Operations	GRH 5
3.1 (Intentionally Open)	GRH 5
3.2 Airside Operations	GRH 5
3.3 Load Control	GRH 5
3.4 Aircraft Loading	GRH 6
4 Special Aircraft Ground Handling Operations	GRH 7
4.1 Aircraft Fueling	GRH 7
4.2 Aircraft De-/Anti-icing	GRH 7

Section 7 — Cargo Operations (CGO)	CGO 1
1 Management and Control	CGO 1
1.1–1.5 (Intentionally Open)	CGO 1
1.6 Operational Manuals	CGO 1
2 Training and Qualification	CGO 2
2.1 Training Program	CGO 2
2.2 Program Elements	CGO 3
3 Acceptance and Handling	CGO 5
3.1 General Cargo	CGO 5
3.2 Dangerous Goods	CGO 5
Table 7.1—Operations Manual Content Specifications	CGO 7
Section 8 — Security Management (SEC)	SEC 1
1 Management and Control	SEC 1
1.1 Management System	SEC 1
1.2 Air Operator Security Program (AOSP)	SEC 1
1.3–1.6 (Intentionally Open)	SEC 2
1.7 Security Manual	SEC 2
2 Training and Qualification	SEC 3
2.1 Training Program	SEC 3
3 Security Operations	SEC 3
3.1–3.3 (Intentionally Open)	SEC 3
3.4 Passengers and Cabin Baggage	SEC 3
3.5–3.6 (Intentionally Open)	SEC 4
3.7 Cargo Shipments	SEC 4

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ISSM Second Edition

The following tables describe changes contained in the Edition 2 of the ISSA Standards Manual (ISSM 2).

The first table, called ISSM 2 Revision Highlights, describes the more significant changes in ISSM 2.

Subsequent tables describe the changes in each of the sections in relation to the current ISSM Edition 2.

Additionally, the number of standards and recommended practices that have been added and eliminated or moved to other section is found in an Added/Eliminated/Moved summary table. All of the added/eliminated/moved provisions are subsequently identified at the beginning of the table for each respective section.

Because of significant changes and addition of “Auditor Actions” to each ISARP in ISSM Edition 2 the identifications of change symbols (refer to ISSM INT 12) were omitted.

ISSM 2 Revision Highlights
Description of Significant Changes
<ul style="list-style-type: none"> Introduction: Wording revised to address potential conflict between the ISM and ISSM.
<ul style="list-style-type: none"> Introduction: Sub-section “Notes and Symbols” was revised and new symbols with their meaning were added.
<ul style="list-style-type: none"> Introduction: New subsections “Modification Status” and “ISSA Documents and Forms” were added.
<ul style="list-style-type: none"> ORG section: Auditor Actions were added to all ORG ISARPs.
<ul style="list-style-type: none"> ORG section: The deadlines for the upgrading the following SMS related recommended practices to a standards were extended accordingly: <ul style="list-style-type: none"> ORG 1.1.10 (1 November 2024); ORG 1.1.12 (1 November 2022); ORG 1.2.3 (1 November 2021); ORG 1.4.2 (1 November 2021); ORG 1.5.2 (1 November 2022); ORG 1.6.5 (1 November 2022); ORG 2.1.5 (1 November 2022); ORG 3.1.1 (1 November 2023); ORG 3.1.2 (1 November 2023); ORG 3.2.1 (1 November 2024); ORG 3.2.2 (1 November 2024); ORG 4.1.4 (1 November 2023);
<ul style="list-style-type: none"> ORG section: New standard (ORG 1.1.4) related to post holders was added.
<ul style="list-style-type: none"> ORG section: New standard (ORG 1.5.1) related to a process of management review system was added.
<ul style="list-style-type: none"> ORG section: Standard (ORG 1.5.2) and its Guidance Material was revised according to ISM Ed. 12.
<ul style="list-style-type: none"> ORG section: SMS related Recommended Practice (ORG 3.2.2) was eliminated.
<ul style="list-style-type: none"> ORG section: FDA related ISARP (ORG 3.3.13) was revised according to ISM Ed. 12 and information of PCO was eliminated.
<ul style="list-style-type: none"> ORG section: Sub-specification (v) was added to ORG 3.4.1 and Guidance Material was revised according to ISM.
<ul style="list-style-type: none"> ORG section: Sub-specification (iii) was added to ORG 3.4.2 and Guidance Material was revised accordingly.
<ul style="list-style-type: none"> ORG section: Guidance Material was added to ORG 3.4.3.
<ul style="list-style-type: none"> ORG section: ORG 3.4.12 was revised according to ISM Ed. 12.
<ul style="list-style-type: none"> ORG section: New standard (ORG 3.5.2) related to a process of monitoring of external service providers was added.
<ul style="list-style-type: none"> ORG section: Recommended practice (ORG 3.6.1) related to product quality control was eliminated.

<ul style="list-style-type: none"> • FLT section: The wording related to AQP/ATQP program was eliminated.
<ul style="list-style-type: none"> • FLT section: Standard related the existence of AOC or equivalent document (FLT 1.2.1) was moved to ORG section (ORG 1.1.2).
<ul style="list-style-type: none"> • FLT section: The ISARP (FLT 2.2.26) was revised and the time period of recurrent training requirement of normal and non-normal procedures was set as 12 months.
<ul style="list-style-type: none"> • FLT section: New Standard related flight crew scheduling, flight time, flight duty period, duty period, rest period limitations (FLT 3.4.3) was added.
<ul style="list-style-type: none"> • FLT section: New Standard related operational task sharing policy (FLT 3.11.18) was added.
<ul style="list-style-type: none"> • FLT section: ISARP related to ACAS for the aircraft MTOW over 5700 kg was eliminated.
<ul style="list-style-type: none"> • FLT section: ISARP related to touchdown zone (FLT 3.11.61) was eliminated.
<ul style="list-style-type: none"> • FLT section: All GPWS related ISARPs in section 4 was revised according to ICAO Annex 6 part II.
<ul style="list-style-type: none"> • FLT section: ISARP related to cargo compartment System and equipment requirements for the aircraft MTOW over 5700 kg was eliminated.
<ul style="list-style-type: none"> • DSP section: Standard related to initial training of FOO and FOA (DSP 2.2.1) was eliminated.
<ul style="list-style-type: none"> • DSP section: Standard related to recurrent training of FOO and FOA personnel (DSP 2.2.2) was eliminated.
<ul style="list-style-type: none"> • DSP section: New Standard related to a process of providing necessary documents to PIC (DSP 3.1.2) was added.
<ul style="list-style-type: none"> • DSP section: New Standard related aircraft performance and load planning (DSP 3.3.1) was added.
<ul style="list-style-type: none"> • DSP section: Recommended practice related to flight monitoring (DSP 3.6.3) was eliminated.
<ul style="list-style-type: none"> • DSP section: New Standard related fuel planning was (DSP 4.3.1) added.
<ul style="list-style-type: none"> • MNT section: Sub-specification (ii) about approval of amendments were added (MNT 1.3.3).
<ul style="list-style-type: none"> • MNT section: Sub-specification (iv) about part installation process was added (MNT 2.3.1). Guidance Material was added to MNT 2.3.1.
<ul style="list-style-type: none"> • MNT section: Sub-spec (iii) was added to address a part that has undergone repair to have certification restored (MNT 2.3.2). Guidance Material was added to MNT 2.3.2.
<ul style="list-style-type: none"> • MNT section: Guidance Material was added to MNT 2.4.2.
<ul style="list-style-type: none"> • MNT section: New standard (MNT 4.11.1) related to the tooling and calibration was added.
<ul style="list-style-type: none"> • MNT section: Table 4.5 related to ETOPS Maintenance Program Specifications was eliminated.
<ul style="list-style-type: none"> • MNT section: Table 4.7 related to Quality Assurance Program Specification and Control Processes was revised according to ISM Ed. 12.
<ul style="list-style-type: none"> • MNT section: Table 4.10 related to Tooling and Calibration Program Specification was added.
<ul style="list-style-type: none"> • CAB section: Standard related to testing or evaluation of cabin crew training courses (CAB 2.1.7) was eliminated.
<ul style="list-style-type: none"> • CAB section: New standard (CAB 3.2.8) related to safety instruction for passengers was added.
<ul style="list-style-type: none"> • CAB section: Table 5.1-sub-specification (vi) was deleted and those items were included to sub-specification (iii).
<ul style="list-style-type: none"> • GRH section: New standard (GRH 3.2.2) related to safety procedures during the conduct of airside operational activities (aircraft arrival and departure ground movement operations) was added.
<ul style="list-style-type: none"> • GRH section: New standard related to the procedures for loading and securing of dangerous goods on an aircraft (when it is carried as a cargo) (GRH 3.4.3) was added.
<ul style="list-style-type: none"> • CGO section: Sub-item (ii) related to the information about DG accepted person was added to CGO 3.2.1.
<ul style="list-style-type: none"> • SEC section: Although the ISARP (SEC 1.7.1) related to the existence of Security Manual was eliminated in ISM Ed. 12, this ISARP was remained in ISSM Ed. 2.
<ul style="list-style-type: none"> • SEC section: ISARP related to the existence of Security Manager (SEC 1.1.2) was eliminated because this was covered in ORG 1.1.4 in general.

<ul style="list-style-type: none"> SEC section: New standard related to the process of screening of passengers and their hand baggage prior to boarding (SEC 3.4.1) was added.
<ul style="list-style-type: none"> SEC section: New standard related to the process of security controls of cargo shipments (SEC 3.7.1) was added.

Summary—ISARPs Added/Eliminated/Moved (All Sections)	
Standards Eliminated	<ul style="list-style-type: none"> Five (5) Touchdown zone policy (FLT) Testing or evolution of cabin crew training courses (CAB) FOO and FOA personnel initial training (DSP) FOO and FOA personnel recurrent training (DSP) Existence of security Manager (SEC)
Standards Added	<ul style="list-style-type: none"> Fourteen (14) Post Holders within management system (ORG) Management Review (ORG) Monitoring of outsourced functions (ORG) Task Sharing Policy (FLT) Flight time, flight duty period, duty period, rest period limitations (FLT) Process of providing necessary documents to PIC (DSP) Aircraft performance and load planning (DSP) Process of fuel planning (DSP) Process to control and document calibration and record of tools (MNT) Safety instruction for passengers (CAB) Safety procedures during the conduct of airside operational activities (aircraft arrival and departure ground movement operations) (GRH) Loading and securing of dangerous goods when it is carried as a cargo (GRH) Screening of Passengers and their hand baggage (SEC) Security controls of cargo shipments (SEC)
Standard or Recommended Practices moved to other Section	<ul style="list-style-type: none"> One (1) ISARP related to the existence of AOC or equivalent document FLT 1.2.1 was moved to ORG 1.1.2
Recommended Practices Eliminated	<ul style="list-style-type: none"> Five (5) Electronic data base (ORG) Product quality control related (ORG) ACAS (FLT) Cargo compartment System and Equipment Requirement (FLT) Flight Monitoring (DSP)
Recommended Practices Added	<ul style="list-style-type: none"> None.

Introduction		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
Purpose	<ul style="list-style-type: none"> Wording was added in order to emphasize the purpose of ISSM more clearly. 	<ul style="list-style-type: none"> November 2018
Applicability	<ul style="list-style-type: none"> Information about applicability boxes at the beginning of each section of ISSM was added. 	<ul style="list-style-type: none"> November 2018
Explanation of ISARPs	<ul style="list-style-type: none"> Editorial changes: ISARPs Identifier information was added. Editorial changes: Content was revised to give better clarification to the meaning of ISSA standards. 	<ul style="list-style-type: none"> November 2018
Parallel Conformity Option	<ul style="list-style-type: none"> Technical changes: information about PCO was eliminated. 	<ul style="list-style-type: none"> November 2018
Notes and Symbols	<ul style="list-style-type: none"> Editorial changes: Information about <PA> and <AC> was deleted. Editorial changes: Information about <GM> symbol was revised. Editorial changes: information ▲ symbols was added. 	<ul style="list-style-type: none"> November 2018
Special Review Suspension	<ul style="list-style-type: none"> Editorial changes: Information about Special Review of ISARPs and their suspensions was added. 	<ul style="list-style-type: none"> November 2018
Guidance Material	<ul style="list-style-type: none"> Editorial changes: Wording was revised and added to improve explanation of Guidance Material. 	<ul style="list-style-type: none"> November 2018
Active Implementation	<ul style="list-style-type: none"> Editorial changes: Information about Active Implementation (AI) was eliminated. 	<ul style="list-style-type: none"> November 2018
Safety Management Systems (SMS)	<ul style="list-style-type: none"> Technical changes: The deadline of all SMS provisions upgrade was changed to 1 November 2024. 	<ul style="list-style-type: none"> November 2018
English Language	<ul style="list-style-type: none"> Editorial changes: Reference to IRM was added. 	<ul style="list-style-type: none"> November 2018
Usable Edition	<ul style="list-style-type: none"> Editorial changes: Wording was revised to improve explanation and to make it more clear. 	<ul style="list-style-type: none"> November 2018
Modification Status	<ul style="list-style-type: none"> Editorial changes: New sub–chapter was added and information about identification symbols of addition of new item, change and deletion of item was written. 	<ul style="list-style-type: none"> November 2018
Conflicting Information	<ul style="list-style-type: none"> Editorial changes: Wording was revised to improve explanation and to make it more clear. 	<ul style="list-style-type: none"> November 2018
Definitions and Abbreviations	<ul style="list-style-type: none"> Editorial changes: The name of sub-section was changed from Definition to Definitions and Abbreviations. 	<ul style="list-style-type: none"> November 2018
ISSA Documents and Forms	<ul style="list-style-type: none"> Editorial changes: New sub-section was added and information about ISSA website (http://www.iata.org/issa) was written. 	<ul style="list-style-type: none"> November 2018

Section 1 (ORG)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> • Editorial changes: Auditor Actions were added to all ORG ISARPs. • Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	<ul style="list-style-type: none"> • November 2018
Standards Added	<ul style="list-style-type: none"> • Three (3): ORG 1.1.4, ORG 1.5.1, ORG 3.5.2. 	<ul style="list-style-type: none"> • November 2018
Recommended Practices Eliminated	<ul style="list-style-type: none"> • Two (2): ORG 3.4.14, ORG 3.6.1. 	<ul style="list-style-type: none"> • November 2018
Recommended Practices Added	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
Applicability Box	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
ORG 1.1.10	<ul style="list-style-type: none"> • Technical change: The date of upgrading the recommended practice to a standard was extended up to 1 November 2024. 	<ul style="list-style-type: none"> • November 2018
ORG 1.1.12	<ul style="list-style-type: none"> • Technical change: The date of upgrading the recommended practice to a standard was extended up to 1 November 2022. • Editorial changes: Guidance Material was revised and wording added for better clarification. 	<ul style="list-style-type: none"> • November 2018
ORG 1.2.1	<ul style="list-style-type: none"> • Technical change: ISARP was revised and additional sub-item was added. 	<ul style="list-style-type: none"> • November 2018
ORG 1.2.3	<ul style="list-style-type: none"> • Technical change: The date of upgrading the recommended practice to a standard was extended up to 1 November 2021. • Editorial changes: Guidance Material was revised and references were corrected. 	<ul style="list-style-type: none"> • November 2018
ORG 1.3.1	<ul style="list-style-type: none"> • Technical changes: ISARP was reviewed and additional sub-item was added. • Editorial changes: Guidance Material was revised and wording added for better clarification. 	<ul style="list-style-type: none"> • November 2018
ORG 1.4.2	<ul style="list-style-type: none"> • Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2021. • Editorial changes: Guidance Material was revised and wording added for better clarification. 	<ul style="list-style-type: none"> • November 2018
ORG 1.5.1	<ul style="list-style-type: none"> • New ISARP related to s process of management review system was added. 	<ul style="list-style-type: none"> • November 2018
ORG 1.5.2	<ul style="list-style-type: none"> • Technical changes: ISARP was revised according to ISM Ed. 12. • Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2021. • Editorial changes: Guidance Material was revised and wording added for better clarification. 	<ul style="list-style-type: none"> • November 2018

ORG 1.6.5	<ul style="list-style-type: none"> Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2022. Editorial changes: Guidance Material was revised and wording added according ISM Ed. 12. 	<ul style="list-style-type: none"> November 2018
ORG 2.1.5	<ul style="list-style-type: none"> Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2022. Editorial changes: Guidance Material was revised according ISM Ed. 12. 	<ul style="list-style-type: none"> November 2018
ORG 3.1.1	<ul style="list-style-type: none"> Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2023. 	<ul style="list-style-type: none"> November 2018
ORG 3.1.2	<ul style="list-style-type: none"> Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2023. Editorial changes: Guidance Material was revised and reference to IRM was added. 	<ul style="list-style-type: none"> November 2018
ORG 3.1.3	<ul style="list-style-type: none"> Editorial changes: Guidance Material was slightly revised. 	<ul style="list-style-type: none"> November 2018
ORG 3.2.1	<ul style="list-style-type: none"> Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2024. 	<ul style="list-style-type: none"> November 2018
ORG 3.2.2A ORG 3.2.2B	<ul style="list-style-type: none"> ISARP was eliminated. 	<ul style="list-style-type: none"> November 2018
ORG 3.3.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and repeated wordings were deleted. 	<ul style="list-style-type: none"> November 2018
ORG 3.3.13	<ul style="list-style-type: none"> Technical changes: ISARP was revised according to ISM Ed. 12. Editorial changes: Guidance Material was revised and new wording added for better explanation. 	<ul style="list-style-type: none"> November 2018
ORG 3.4.1	<ul style="list-style-type: none"> Technical changes: ISARP was revised and sub-specification (v) was added. Editorial changes: Guidance Material was revised according to ISM Ed. 12. 	<ul style="list-style-type: none"> November 2018
ORG 3.4.2	<ul style="list-style-type: none"> Technical changes: ISARP was revised and sub-specification (iii) was added. Editorial changes: Guidance Material was revised accordingly. 	<ul style="list-style-type: none"> November 2018
ORG 3.4.3	<ul style="list-style-type: none"> Editorial changes: Guidance Material was added. 	<ul style="list-style-type: none"> November 2018
ORG 3.4.10	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and reference to IAH was added. 	<ul style="list-style-type: none"> November 2018
ORG 3.4.12	<ul style="list-style-type: none"> Technical changes: ISARP was revised according to ISM Ed. 12. Editorial changes: Guidance Material was revised accordingly. 	<ul style="list-style-type: none"> November 2018
ORG 3.4.14	<ul style="list-style-type: none"> ISARP was eliminated. 	<ul style="list-style-type: none"> November 2018



Description of Changes

ORG 3.5.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and wordings were added for better clarification. 	<ul style="list-style-type: none"> November 2018
ORG 3.5.2	<ul style="list-style-type: none"> New ISARP related to a processes of monitoring external service providers was added. 	<ul style="list-style-type: none"> November 2018
ORG 3.6.1	<ul style="list-style-type: none"> ISARP was eliminated. 	<ul style="list-style-type: none"> November 2018
ORG 4.1.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and wordings were added for better clarification. 	<ul style="list-style-type: none"> November 2018
ORG 4.1.4A ORG 4.1.4B	<ul style="list-style-type: none"> Technical changes: The date of upgrading the recommended practice to a standard was extended up to 1 November 2023. Editorial changes: Guidance Material was revised. 	<ul style="list-style-type: none"> November 2018
Table 1.1	<ul style="list-style-type: none"> Editorial change: IRM reference was revised. 	<ul style="list-style-type: none"> November 2018

Section 2 (FLT)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> Technical changes: AQP/ATQP statements were eliminated from FLT training provisions. Editorial changes: Auditor Actions were added to all FLT ISARPs. Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. Editorial changes: wording flight training device was changed to flight simulator. Editorial Changes: Numbering of ISARPs in Section FLT 4.3 was changed. 	<ul style="list-style-type: none"> November 2018
Standards Eliminated	<ul style="list-style-type: none"> One (1): FLT 3.11.61. 	<ul style="list-style-type: none"> November 2018
Standards Moved to other Section	<ul style="list-style-type: none"> One (1) FLT 1.2.1 was moved to ORG 1.1.2. 	<ul style="list-style-type: none"> November 2018
Standards Added	<ul style="list-style-type: none"> Two (2): FLT 3.4.3, FLT 3.11.18. 	<ul style="list-style-type: none"> November 2018
Recommended Practices Eliminated	<ul style="list-style-type: none"> Two (2) FLT 4.3.21 and FLT 4.4.2. 	<ul style="list-style-type: none"> November 2018
Recommended Practices Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Applicability Box	<ul style="list-style-type: none"> Wording revised to clarify scope of aircraft applicability (aircraft must be certified for operation by, and operated by, two pilots). Wording revised for standardization and consistency with ORG in addressing outsourced operational functions. Information about <PA> and <AC> symbols were deleted. Note related to the renewal assessment of aircraft above 5,700 Kg MTOW and their eligibility was revised. 	<ul style="list-style-type: none"> November 2018

FLT 1.2.1	<ul style="list-style-type: none"> Technical change: Standard related to the existence of AOC or equivalent document was moved to ORG 1.1.2. 	<ul style="list-style-type: none"> November 2018
FLT 1.7.1	<ul style="list-style-type: none"> Editorial change: Guidance Material was revised and unnecessary wording was deleted. 	<ul style="list-style-type: none"> November 2018
FLT 2.1.1	<ul style="list-style-type: none"> Technical change: Wording added to sub-spec (vi) to expand specialized training requirements to include operations authorized in AOC. Editorial change: Wording revised to include evidence-based training to sub-item (vii). Guidance material was revised. Editorial change: IRM reference added. Editorial changes: Wording deleted (included as specification in standard). 	<ul style="list-style-type: none"> November 2018
FLT 2.1.10	<ul style="list-style-type: none"> Technical change: ISARP was revised and reference to ORG 2.1.1 was added. 	<ul style="list-style-type: none"> November 2018
FLT 2.2.12	<ul style="list-style-type: none"> Technical change: ISARP was revised and the information about curriculum of dangerous goods training was moved to guidance material. 	<ul style="list-style-type: none"> November 2018
FLT 2.2.13	<ul style="list-style-type: none"> Technical change: ISARP was revised and the information about curriculum of dangerous goods training was moved to guidance material. 	<ul style="list-style-type: none"> November 2018
FLT 2.2.16	<ul style="list-style-type: none"> Technical change: Note about the applicability of sub-item (ii) was added. 	<ul style="list-style-type: none"> November 2018
FLT 2.2.26	<ul style="list-style-type: none"> Technical change: The ISARP was revised and the time period of recurrent training requirement of normal and non-normal procedures was set as 12 months. Editorial change: Guidance material was revised and the reference to FLT 3.11.18 regarding to task sharing, definition of abnormal, normal or non/normal situation was added. 	<ul style="list-style-type: none"> November 2018
FLT 2.2.27	<ul style="list-style-type: none"> Technical change: ISAPR was revised wording was added to sub item (ii). 	<ul style="list-style-type: none"> November 2018
FLT 2.2.34	<ul style="list-style-type: none"> Editorial change: Guidance material was revised and the reference to FLT 2.2.38 was deleted. 	<ul style="list-style-type: none"> November 2018
FLT 3.4.3	<ul style="list-style-type: none"> New Standard related flight crew scheduling, flight time, flight duty period, duty period, rest period limitation was added. 	<ul style="list-style-type: none"> November 2018
FLT 3.9.6	<ul style="list-style-type: none"> Technical change: The Standard was revised according to ISM Ed. 12. Editorial change: wording about reference to GRH 4.2.1 was extended. 	<ul style="list-style-type: none"> November 2018
FLT 3.11.18	<ul style="list-style-type: none"> New Standard related operational task sharing policy was added. 	<ul style="list-style-type: none"> November 2018
FLT 3.11.61	<ul style="list-style-type: none"> ISARP related touchdown zone policy was eliminated. 	<ul style="list-style-type: none"> November 2018
FLT 3.11.62	<ul style="list-style-type: none"> Technical change: Guidance material was added. 	<ul style="list-style-type: none"> November 2018
FLT 4.3.21	<ul style="list-style-type: none"> Recommended Practice related to ACAS for turbine engine aircraft was eliminated. 	<ul style="list-style-type: none"> November 2018

FLT 4.3.24	<ul style="list-style-type: none"> • Technical change: Standard and Guidance Material were revised for better clarification. • Editorial Change: ISARP numbering was changed to FLT 4.3.1. 	November 2018
FLT 4.3.25	<ul style="list-style-type: none"> • Technical change: Note regarding to upgrading of this recommended practice to a standard was added. • Editorial change: ISARP numbering was changed to FLT 4.3.2. 	• November 2018
FLT 4.3.26	<ul style="list-style-type: none"> • Editorial change: ISARP was slightly revised for better clarification and the numbering was changed to FLT 4.3.3. • Technical change: numbering was changed and it became FLT 4.3.25. 	• November 2018
FLT 4.3.27	<ul style="list-style-type: none"> • Technical change: numbering was changed and it became FLT 4.3.26. • Editorial change: ISARP numbering was changed to FLT 4.3.4. • ISARP was revised according to ICAO Annex 6 Part II (2.4.11.2). 	• November 2018
FLT 4.4.2	<ul style="list-style-type: none"> • Technical change: ISARP was eliminated. 	• November 2018
Table 2.2	<ul style="list-style-type: none"> • Technical change: Table was revised according ISM Ed. 12 and references to DSP ISARPs were added. 	• November 2018
Table 2.5	<ul style="list-style-type: none"> • Editorial change: The reference to FLT 2.4.1 was deleted. 	• November 2018

Section 3 (DSP)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> • Editorial changes: Auditor Actions were added to all DSP ISARPs. • Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	• November 2018
Standards Eliminated	<ul style="list-style-type: none"> • Two (2) DSP 2.2.1, DSP 2.2.2. 	• November 2018
Standards Added	<ul style="list-style-type: none"> • Three (3) DSP 3.1.2, DSP 3.3.1, DSP 4.3.1. 	• November 2018
Recommended Practices Eliminated	<ul style="list-style-type: none"> • One (1): DSP 3.6.3. 	• November 2018
Recommended Practices Added	<ul style="list-style-type: none"> • None. 	• N/A
Applicability Box	<ul style="list-style-type: none"> • Wording revised for standardization and consistency with ORG and ISM Ed. 12. 	• November 2018
General Guidance	<ul style="list-style-type: none"> • Wording revised for standardization and consistency with ISM Ed. 12. 	• November 2018
DSP 1.3.4	<ul style="list-style-type: none"> • Editorial change: additional information about Partial Shared System was added to Guidance Material. 	• November 2018

DSP 1.3.5	<ul style="list-style-type: none"> Editorial change: repeated information about outsourcing operational control functions was deleted. 	<ul style="list-style-type: none"> November 2018
DSP 1.7.1	<ul style="list-style-type: none"> Technical change: ISARP was revised according to ISM Ed. 12. Editorial change: Guidance Material was revised and additional information related to OM was added. 	<ul style="list-style-type: none"> November 2018
DSP 2.1.1	<ul style="list-style-type: none"> Technical changes: The content of Guidance Material was extended and the information about training curriculum, initial and recurrent training of FOO and FOA personnel was added. Editorial changes: IRM references added. 	<ul style="list-style-type: none"> November 2018
DSP 2.2.1	<ul style="list-style-type: none"> ISARP was eliminated. 	<ul style="list-style-type: none"> November 2018
DSP 2.2.2	<ul style="list-style-type: none"> ISARP was eliminated. 	<ul style="list-style-type: none"> November 2018
DSP 3.1.2	<ul style="list-style-type: none"> New Standard related to a process of providing necessary documents to PIC was added. 	<ul style="list-style-type: none"> November 2018
DSP 3.3.1	<ul style="list-style-type: none"> New Standard related aircraft performance and load planning was added. 	<ul style="list-style-type: none"> November 2018
DSP 3.6.3	<ul style="list-style-type: none"> Recommended practice related to flight monitoring was eliminated. 	<ul style="list-style-type: none"> November 2018
DSP 4.3.1	<ul style="list-style-type: none"> New Standard related fuel planning was added. 	<ul style="list-style-type: none"> November 2018
Table 3.1	<ul style="list-style-type: none"> Slightly revised according to ISM Ed. 12. 	<ul style="list-style-type: none"> November 2018
Table 3.2	<ul style="list-style-type: none"> Table was revised and references to DSP and FLT ISARPs were corrected accordingly. 	<ul style="list-style-type: none"> November 2018
Table 3.5	<ul style="list-style-type: none"> Table was revised according to ISM Ed. 12. 	<ul style="list-style-type: none"> November 2018

Section 4 (MNT)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> Editorial changes: Auditor Actions were added to all MNT ISARPs. Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	<ul style="list-style-type: none"> November 2018
Standards Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Standards Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Recommended Practices Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Recommended Practices Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Applicability Box	<ul style="list-style-type: none"> New paragraph added to address applicability of GRH standards when certain aircraft ground handling functions are accomplished by maintenance personnel. Wording revised for standardization and consistency with ORG in addressing outsourced operational functions. 	<ul style="list-style-type: none"> November 2018

MNT 1.3.1	<ul style="list-style-type: none"> • Technical change: The ISARP was revised slightly according to ISM 12. • Editorial change: Guidance Material was revised and unnecessary information was deleted. • Editorial change: Guidance Material was revised and unnecessary information was deleted. 	<ul style="list-style-type: none"> • November 2018
MNT 1.3.3	<ul style="list-style-type: none"> • Technical change: ISARPs was revised and sub item (ii) about approval of amendments were added. 	<ul style="list-style-type: none"> • November 2018
MNT 1.7.1	<ul style="list-style-type: none"> • Editorial change: Guidance material was slightly revised and wording EDTO was added. 	<ul style="list-style-type: none"> • November 2018
MNT 2.3.1	<ul style="list-style-type: none"> • Technical change: Sub-spec (iv) about part installation process was added. • Technical change: Guidance Material was added to the ISARP. 	<ul style="list-style-type: none"> • November 2018
MNT 2.3.2	<ul style="list-style-type: none"> • Technical change: Sub-spec (iii) was added to address a part that has undergone repair to have certification restored. • Technical change: Guidance Material was added to the ISARP. 	<ul style="list-style-type: none"> • November 2018
MNT 2.4.2	<ul style="list-style-type: none"> • Technical change: Guidance Material was added to the ISARP. 	<ul style="list-style-type: none"> • November 2018
MNT 2.5.2	<ul style="list-style-type: none"> • Technical change: ISARP was revised and continuing airworthiness applied to all aircraft (it was only for aircraft over 5,700 kg (12,566 lb) maximum certificated take off mass). Technical change: Guidance material was added to the ISARP. 	<ul style="list-style-type: none"> • November 2018
MNT 4.1.1	<ul style="list-style-type: none"> • Editorial change: IRM reference was added to Guidance Material. 	<ul style="list-style-type: none"> • November 2018
MNT 4.3.1	<ul style="list-style-type: none"> • Editorial change: IRM reference was added to Guidance Material. 	<ul style="list-style-type: none"> • November 2018
MNT 4.5.1	<ul style="list-style-type: none"> • Editorial change: Guidance Material was revised and wording added to expand explanation of intent. 	<ul style="list-style-type: none"> • November 2018
MNT 4.10.1	<ul style="list-style-type: none"> • Technical change: Wording added to sub-spec (ii) to include revision status. • Editorial change: Guidance Material was revised and wording added to expand explanation of intent. • Editorial change: IRM reference was added to Guidance Material. 	<ul style="list-style-type: none"> • November 2018
MNT 4.11.1	<ul style="list-style-type: none"> • New standard related to tools calibration was added. 	<ul style="list-style-type: none"> • November 2018
Table 4.1	<ul style="list-style-type: none"> • Technical change: Table was revised and sub item (v), (vi) description of reliability program and procedure of periodic review and reliability program was added accordingly. 	<ul style="list-style-type: none"> • November 2018
Table 4.3	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
Table 4.5	<ul style="list-style-type: none"> • Table was eliminated. 	<ul style="list-style-type: none"> • November 2018

Table 4.6	<ul style="list-style-type: none"> Technical change: Note regarding to sub item (xi) was added. 	<ul style="list-style-type: none"> November 2018
Table 4.7	<ul style="list-style-type: none"> Technical change: Table was revised according to ISM Ed.12. 	<ul style="list-style-type: none"> November 2018
Table 4.9	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Table 4.11	<ul style="list-style-type: none"> New Table related Tooling and Calibration Program Specifications was added. 	<ul style="list-style-type: none"> November 2018

Section 5 (CAB)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> Editorial changes: Auditor Actions were added to all CAB ISARPs. Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	<ul style="list-style-type: none"> November 2018
Standards Eliminated	<ul style="list-style-type: none"> One (1): CAB 2.1.17. 	<ul style="list-style-type: none"> November 2018
Standards Added	<ul style="list-style-type: none"> One (1): CAB 3.2.8. 	<ul style="list-style-type: none"> November 2018
Recommended Practices Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Recommended Practices Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Applicability Box	<ul style="list-style-type: none"> Wording revised for standardization and consistency with ORG in addressing outsourced operational functions and conditional phrases. 	<ul style="list-style-type: none"> November 2018
General Guidance	<ul style="list-style-type: none"> Editorial change: Reference to IATA Cabin Operations Best Practices Guide added. 	<ul style="list-style-type: none"> November 2018
CAB 2.1.1	<ul style="list-style-type: none"> Technical changes: ISARP was revised according to ISM Ed. 12 but it was remained in conditional phrase and sub-specification (vi) related to cabin crew AQP was not included. 	<ul style="list-style-type: none"> November 2018
CAB 2.1.17	<ul style="list-style-type: none"> Standard was eliminated. 	<ul style="list-style-type: none"> November 2018
CAB 3.2.8	<ul style="list-style-type: none"> New standard related to safety instruction for passengers was added. 	<ul style="list-style-type: none"> November 2018
Table 5.1	<ul style="list-style-type: none"> Technical changes: Sub-specification (vi) was deleted and those items were included to sub-specification (iii). Editorial change: Wording revised for consistency in addressing cabin fires and smoke. 	<ul style="list-style-type: none"> November 2018

Section 6 (GRH)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> Editorial changes: Auditor Actions were added to all GRH ISARPs and wording revised that addresses mail as an item of cargo. Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	<ul style="list-style-type: none"> November 2018
Standards Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Standards Added	<ul style="list-style-type: none"> Two (2): GRH 3.2.2, GRH 3.4.3. 	<ul style="list-style-type: none"> November 2018
Recommended Practices Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Recommended Practices Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Applicability Box	<ul style="list-style-type: none"> Wording added to address mail as an item of cargo. Wording revised for standardization and consistency with ORG in addressing outsourced operational functions. 	<ul style="list-style-type: none"> November 2018
GRH 2.1.1	<ul style="list-style-type: none"> Editorial changes: Sub-specification (ii) of ISARP and Guidance material was slightly revised. 	<ul style="list-style-type: none"> November 2018
GRH 2.2.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and reference of DGR Appendix H was added. 	<ul style="list-style-type: none"> November 2018
GRH 2.2.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was slightly revised and reference of DGR Appendix H was also added. 	<ul style="list-style-type: none"> November 2018
GRH 3.2.2	<ul style="list-style-type: none"> New ISARP and Guidance Material related to safety procedures during the conduct of airside operational activities (aircraft arrival and departure ground movement operations) was added. 	<ul style="list-style-type: none"> November 2018
GRH 3.3.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and reference of AHM 551 was added. 	<ul style="list-style-type: none"> November 2018
GRH 3.4.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and references of IGOM and AHM were specified. 	<ul style="list-style-type: none"> November 2018
GRH 3.4.3	<ul style="list-style-type: none"> New ISARP and Guidance Material related to the procedures for loading and securing of dangerous goods on an aircraft (when it is carried as a cargo) was added. 	<ul style="list-style-type: none"> November 2018
GRH 4.1.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and wording added to expand explanation of intent. 	<ul style="list-style-type: none"> November 2018
GRH 4.2.1	<ul style="list-style-type: none"> Editorial changes: ISARP and Guidance Material was revised according to IDM Ed. 12. 	<ul style="list-style-type: none"> November 2018

Section 7 (CGO)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> Editorial changes: Auditor Actions were added to all CGO ISARPs and wording revised that addresses mail as an item of cargo. Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	<ul style="list-style-type: none"> November 2018
Standards Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Standards Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Recommended Practices Eliminated	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Recommended Practices Added	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A
Applicability Box	<ul style="list-style-type: none"> Wording revised that addresses mail as an item of cargo. New paragraph added to address applicability of GRH standards when certain aircraft ground handling functions are accomplished by cargo operations personnel. Wording revised for standardization and consistency with ORG in addressing outsourced operational functions. 	<ul style="list-style-type: none"> November 2018
CGO 1.6.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised and IRM reference was added. 	<ul style="list-style-type: none"> November 2018
CGO 2.1.1	<ul style="list-style-type: none"> Technical changes: ISARP was revised according to ISM Ed. 12. Editorial changes: Guidance Material was revised accordingly. 	<ul style="list-style-type: none"> November 2018
CGO 2.2.1	<ul style="list-style-type: none"> Technical changes: ISARP was revised according to ISM Ed. 12. Editorial changes: Guidance Material was revised and a typical DG training curriculum was added. 	<ul style="list-style-type: none"> November 2018
CGO 2.2.2	<ul style="list-style-type: none"> Technical changes: ISARP was revised according to ISM Ed. 12. Editorial changes: Guidance Material was revised and a typical DG training curriculum was added. 	<ul style="list-style-type: none"> November 2018
CGO 3.1.1	<ul style="list-style-type: none"> Editorial changes: Guidance Material was revised. 	<ul style="list-style-type: none"> November 2018
CGO 3.2.1	<ul style="list-style-type: none"> Technical changes: ISARP was revised and sub-specification (ii) was added. Editorial changes: Guidance Material was revised and wording "lithium batteries" was deleted. 	<ul style="list-style-type: none"> November 2018
Table 7.1	<ul style="list-style-type: none"> None. 	<ul style="list-style-type: none"> N/A

Section 8 (SEC)		
Area Changed	Description of Change(s)	Date of changes (dd.mm.yyy)
General (changes that are applied multiple times)	<ul style="list-style-type: none"> • Editorial changes: Terminology standardization; use of the abbreviation AOSP (Air Operator Security Program) for all references to the operator's security program. • Editorial changes: Auditor Actions were added to all SEC ISARPs. • Editorial changes: wording one/two/three calendar years were changed to 12/24/36 months accordingly. 	<ul style="list-style-type: none"> • November 2018
Standards Eliminated	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
Standards Added	<ul style="list-style-type: none"> • Two (2). SEC 3.4.1, SEC 3.7.1. 	<ul style="list-style-type: none"> • November 2018
Recommended Practices Eliminated	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
Recommended Practices Added	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
Applicability Box	<ul style="list-style-type: none"> • None. 	<ul style="list-style-type: none"> • N/A
SEC 1.1.2	<ul style="list-style-type: none"> • Technical changes: ISARP revised according to ISM Ed. 12. • Editorial changes: IRM reference was slightly revised. 	<ul style="list-style-type: none"> • November 2018
SEC 1.2.1	<ul style="list-style-type: none"> • ISARP was eliminated as it is covered by ORG 1.1.4. 	<ul style="list-style-type: none"> • November 2018
SEC 2.1.1	<ul style="list-style-type: none"> • Technical changes: Note was added to ISARP for clarification. • Editorial changes: sub item (ii) was slightly revised according to ISM Ed. 12 and Guidance Material was revised accordingly. 	<ul style="list-style-type: none"> • November 2018
SEC 3.4.1	<ul style="list-style-type: none"> • New ISARP related to the process of screening of passengers and their hand baggage prior to boarding was added. 	<ul style="list-style-type: none"> • November 2018
SEC 3.7.1	<ul style="list-style-type: none"> • New ISARP related to the process of security controls of cargo shipments was added. 	<ul style="list-style-type: none"> • November 2018

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Introduction

1 Purpose

The ISSA Standards Manual (ISSM) is published in order to provide the standards, recommended practices (ISARPs), associated guidance material and other supporting information necessary for an operator to successfully prepare for an assessment.

ISSA Standard Manual (ISSM) Edition 2 has been accepted by Director, Audit Programs Safety and Flight Operations and approved by Senior Vice President, Safety and Flight Operations of IATA.

The ISSM may also be used as a guide for any operator desiring to structure its operational management and control systems in conformity with the latest industry operational practices.

The ISSM is the sole source of assessment criteria to be utilized by auditors when conducting an assessment against the ISARPs.

- ISSM may also be used as a guide for any operator desiring to structure its operational management and control systems in conformity with the latest industry operational practices.

2 Structure

The ISSM is organized as follows:

[Section 1](#) → Organization and Management System (ORG);

[Section 2](#) → Flight Operations (FLT);

[Section 3](#) → Operational Control and Flight Dispatch (DSP);

[Section 4](#) → Aircraft Engineering and Maintenance (MNT);

[Section 5](#) → Cabin Operations (CAB);

[Section 6](#) → Ground Handling Operations (GRH);

[Section 7](#) → Cargo Operations (CGO);

[Section 8](#) → Security Management (SEC).

Each section in this Manual has been assigned an associated 3-letter identifier (in parentheses above). The reference number for every standard or recommended practice within a section will include the specific 3-letter identifier for that section.

3 Sources for ISSM Standards and Recommended Practices (ISARPs)

The safety and security requirements published in the Annexes to the Convention on International Civil Aviation (ICAO Annexes) are the primary source for specifications contained the ISARPs. Safety and security requirements in the ICAO Annexes used as the basis for ISARPs are those that are applicable either directly or indirectly to the air operator.

4 Applicability of ISARPs

Applicability Guidance

- △ To provide guidance to the operators, an Applicability box is found at the beginning of each section of this manual. Within the box is a general description of the applicability of the ISARPs contained in the section. The applicability of individual standards or recommended practices is always determined by the auditor. As a means to assist with the interpretation of individual application, many ISARPs begin with a *conditional phrase* as described below.

Systemic Applicability

- △ When making a determination as to the applicability of individual ISARPs, it is important to take into account operations (relevant to the individual standard or recommended practice) that are conducted, not only at the home station, but at all stations and other locations throughout the operator's network.

Aircraft Applicability

The ISARPs as published in this version of the ISSM are applicable only for the assessment of an operator that meets the eligibility criteria below:

- Commercial passenger and/or cargo operations;
- Aircraft with one or more turbine powered and/or multiple reciprocating engines;
- One- or two-pilot operations;
- IFR and/or VFR operations;
- Aircraft below 5,700 Kg MTOW;

△ **Note:** *Aircraft above 5,700 Kg MTOW will be eligible for one ISSA initial assessment, aircraft above 5700 kg MTOW will be assessed as out of scope during next renewal assessment.*

ISARPs may not be applied or used for the assessment of operations that are conducted with:

- Aircraft with single reciprocating engines;
- Helicopters;
- Seaplanes;
- Any operator who is currently on the IOSA Registry;
- Operators with no aircraft on the AOC (only wet-lease operations).

During an assessment, ISARPs are applied only to those aircraft that are of the type authorized in the Air Operator Certificate (AOC) (or equivalent document) and utilized in commercial passenger and/or cargo operations. Certain ISARPs are also applicable to non-commercial operations, and such application is indicated in a note that is part of the standard or recommended practice.

Other owned or leased aircraft that are not of the type authorized in the AOC and/or not utilized in commercial air transport operations will not be evaluated during an assessment. However, the existence of such aircraft will be referenced with an explanation in the ISSA Assessment Report (IAR).

5 Explanation of ISARPs

ISARPs contained in this manual have been developed solely for use under the ISSA program and contain the operational criteria upon which the assessments are based. ISARPs are not regulations.

□ **ISARPs Identifiers**

All ISM provisions (i.e. the ISARPs) are preceded by an identifier that consists of the three-letter section abbreviation and a string of three numbers separated by two decimal points (e.g. [ORG 1.1.1](#)). Stabilization of the ISARPs identifiers is an important goal, primarily for facilitating use of the ISARPs by operators, auditors and others, but also for the purpose of ensuring an accurate statistical basis. Therefore, when revising the ISSM, every effort is made to minimize any renumbering of the ISARPs. In certain instances new provisions must be inserted into an existing series of ISARPs. Normally this is done when it is important that the new provision has a logical locational relationship with another existing provision. When this occurs, an additional upper-case letter is attached to the identifier of the applicable provisions as the means of avoiding the renumbering of other ISARPs that follow in the series.

Standards

△ ISSA Standards are specified systems, policies, programs, processes, procedures, plans, sets of measures, facilities, components, types of equipment or any other aspect of operations under the scope of ISSA that have been determined to be an operational necessity, and with which an operator will be expected to be in conformity at the conclusion of an assessment. Standards always contain the word “shall” (e.g., “The Operator shall have a process...”) in order to denote that conformance by an operator being audited is a requirement for ISSA registration.

During an assessment, determination of nonconformity with specifications contained in an ISSA Standard results in a Finding, which in turn results in the generation of a Corrective Action Report (CAR).

To close a Finding, an operator will develop a Corrective Action Plan (CAP), and then implement corrective action in accordance with the CAP.

Recommended Practices

ISSA Recommended Practices are specified systems, policies, programs, processes, procedures, plans, sets of measures, facilities, components, types of equipment or any other aspects of operations under the assessment scope of ISSA that have been determined to be operationally desirable, but conformity is optional by an operator. Recommended Practices always contain the italicized word “should” (e.g., “The Operator should have a policy...”) to denote conformance is optional.

During an assessment, a determination of nonconformity with specifications contained in an ISSA Recommended Practice results in an Observation, which in turn results in the generation of a CAR.

An operator is not obliged to close an observation with corrective action but, as a minimum, must provide the root cause analysis (RCA) portion of the CAP. However, if an operator chooses to close an Observation, it will require subsequent implementation of corrective action the same as is required to close a Finding.

Conditional Phrase

Certain provisions (i.e. standards or recommended practices, or sub-specifications within certain provisions), begin with a conditional phrase. The conditional phrase states the conditions (one or more) that serve to define the applicability of the provision or sub-specification to the individual operator being assessed. A conditional phrase begins with the words “If the Operator...”

When assessing an operator against a provision or sub-specification that begins with a conditional phrase, the Auditor will first determine if an operator meets the condition(s) stated in the conditional phrase. If the operator meets the stated condition(s), the provision or sub-specification is applicable to the operator and must be assessed for conformity. If the operator does not meet the condition(s), the provision or sub-specification is not applicable to that operator, and such non-applicability will be recorded as N/A.

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Notes and Symbols

An italicized note (Note:) immediately following a provision contains information relevant to the specification(s) in the provision, and is to be considered as part of the provision.

⊗

An **[SMS]** symbol in bold text immediately following the last sentence of an ISSA provision indicates the provision specifies one or more of the elements of a safety management system (SMS). (SMS is addressed in [subsection 8](#) below.)

△

A **(GM)** symbol in bold text following the last sentence of an ISSA provision indicates the existence of associated guidance material. (Guidance Material is addressed in [subsection 6](#) below.)

□

Special Review Suspension

IATA, upon request from an appropriate industry source, may subject the technical specifications within an ISSA standard to a special review in accordance with the ISSA Standards Special Review Process.

When a special review is conducted, the ISSA standard or certain sub-specifications within the ISSA standard are put under suspension until the special review has been completed.

When a new edition of the ISSM is published while a special review is in progress, the suspended ISSA standard or sub-specification(s) within the ISSA standard will be identified with either of the following, as appropriate:

- ***(This standard is currently suspended in accordance with the ISSA Standards Special Review Process), or***
- ***(This sub-specification is currently suspended in accordance with the ISSA Standards Special Review Process).***

6 Guidance Material

Guidance material is informational in nature and supplements or clarifies the meaning or intent of certain ISARPs. ISARPs that are self-explanatory do not have associated guidance material.

Guidance material is designed to ensure a common interpretation of specifications in ISARPs and provides additional detail that assists an operator to understand what is required in order to achieve conformity. Where applicable, guidance material also presents examples of acceptable alternative means of achieving conformity.

△ Guidance material associated with an individual standard or recommended practice is co-located with the relevant provision and is preceded by the bold sub-heading **Guidance**.

□ Additionally, some guidance material relates to an entire ISSM section or to a specific grouping of provisions within a section. Such guidance stands alone in an appropriate location and is preceded by the bold heading **General Guidance**.

Assessment specifications are contained only in the ISARPs, and never in the guidance material.

7 Operational Assessment

During an assessment, an operator is assessed against the ISARPs contained in this manual. To determine conformity with any standard or recommended practice, an auditor will gather evidence to assess the degree to which specifications are documented and implemented by the operator. In making such an assessment, the following information is applicable.

Documented

Documented shall mean the specifications in the ISARPs are published and accurately represented by an operator in a controlled document. A controlled document is subject to processes that provide for positive control of content, revision, publication, distribution, availability and retention.

Documentation is necessary for an operator to ensure systems, programs, policies, processes, procedures and plans are implemented in a standardized manner, and to further ensure such standardized implementation is sustained on an on-going basis. Documentation provides the standards that govern the way personnel perform tasks within the management system and in operations. Such documented standards are necessary for an operator to:

- Provide continuity in the flow of information to personnel;
- Ensure personnel are properly trained;
- Conduct evaluations (e.g. audits, inspections, performance assessments).

Implemented

Implemented shall mean the specification(s) in the ISARPs are established, activated, integrated, incorporated, deployed, installed, maintained and/or made available, as part of the operational system, and is (are) monitored and evaluated, as necessary, for continued effectiveness.

The continuity of implementation is directly linked to documentation. To ensure standardization within the management system and in the conduct of operations, an operator must ensure specified systems, programs, policies, processes, procedures and plans are implemented as published in its controlled documents.

The requirement for specifications to be documented and implemented by an operator is inherent in ISARPs unless indicated otherwise.

Inactive Approved Operations

It is not unusual for an operator to elect not to conduct certain types of operations for which it has regulatory approval (e.g. transport of dangerous goods). In such cases, ISSA provisions with specifications that address such inactive operations would not be applicable to the operator during an assessment if it is stated clearly in a controlled document (e.g. Operations Manual) that the specified operations are not conducted by the operator.

Outsourced Functions

Where an operator has chosen to outsource operational functions specified in ISSA provisions to external service providers, conformity with those provisions will be based on evidence provided by the operator that demonstrates acceptable processes are in place (i.e. processes are documented and implemented) for monitoring such external service providers to ensure fulfillment of applicable operator and regulatory requirements affecting the safety and security of operations. Auditing is recommended as an effective method for an operator to monitor external service providers.

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8 Safety Management Systems (SMS)

△

The components and elements of an SMS for air operators are published in the ICAO Framework for Safety Management Systems (SMS) as published in ICAO in Annex 19. Guidance supporting the Framework may be found in the ICAO Safety Management Manual (SMM), Doc 9859. Most SMS components and elements contained in the ICAO Framework are addressed in the ISARPs.

Specific SMS requirements for an operator will always be mandated by the State in accordance with its individual State Safety Plan (SSP). Not all states will mandate SMS immediately, and some states could take several years before making SMS mandatory for its operators. Additionally, some elements of SMS are quite complex, thus full implementation of an SMS by an operator will typically take several years. Therefore, given these factors, most SMS provisions are initially presented in the ISARPs as recommended practices (i.e. “should”). SMS standards and recommended practices are identified by a bold [SMS] symbol immediately following the last sentence of the provision.

An operator that is assessed and found to be in conformity with all ISARPs (applicable to that operator) identified by the **[SMS]** symbol, is considered to have a baseline SMS in place.

Such baseline SMS might not meet the SMS requirements of all states because certain states, in accordance with their individual SSP, could add requirements above those contained in the ICAO framework. Additionally, some states might mandate operators to implement SMS using a multiphase approach. In either case, having the basic SMS elements implemented in accordance with the ISSA standards should facilitate compliance with individual state SMS requirements.

SMS Upgrades

△

In accordance with the IATA SMS Strategy, all ISSA SMS recommended practices are being incrementally upgraded to standards such that, with the ISSM revision that will be effective on 1 November 2024, all ISSA SMS provisions will have been upgraded to standards (i.e. “shall”).

9 ISSA Documentation System

The ISSM is used in association with the following related manuals:

- ISSA Program Manual (ISPM);
- IOSA Program Manual (IPM);
- IATA Reference Manual for Audit Programs (IRM);
- IOSA Audit Handbook (IAH).

The ISPM, IPM, IRM and IAH comprise the ISSA documentation system.

10 English Language

English is the official language of the ISSA Program; documents comprising the ISSA Documentation System are written in International English* in accordance with IATA policy.

The ISSA Program Manual requires auditors to ensure the English language version of this ISSM and/or ISSA Checklists is always used as the basis for a final determination of conformity or nonconformity with ISARPs during the conduct of an assessment. Versions of the ISSM or ISSA Checklists that have been translated into another language are subject to misinterpretation; therefore, any translated ISSA document is considered an unofficial reference.

△

* Refer to the IRM for the definition of *International English*. The official reference for International English in accordance with IATA policy is the online Merriam-Webster Dictionary (<http://www.merriam-webster.com>).

11 Manual Revisions

The ISSM is normally revised annually. In accordance with IATA policy, a revision to the ISSM (other than a temporary revision) will always result in a new edition of the ISSM.

The time period between the issuance of a new edition of the ISSM and the effective date of such new edition is typically four full months.

Should critical issues arise that affect the content of the ISSM, a temporary revision (TR) will be issued.

Usable Edition

△ For an ISSA assessment, the Operator normally determines the edition of the ISSM that will be used for an assessment.

The Operator has the option to select either:

- The edition that is effective on the day before the on-site phase of the assessment is scheduled to begin, or
- An edition that has been published prior to the day the on-site phase of the assessment is scheduled to begin, but has not yet become effective.

□ 12 Modification Status

All changes in this document are listed in the revision highlights table. For easier orientation, the following symbols identify any changes made within each section:

- Addition of a new item.
- △ Change to an item.
- ⊗ Deletion of an item.

13 Conflicting Information

△ Manuals within the ISSA documentation system are not revised concurrently, thus creating the possibility of conflicting information in different manuals. If there are inconsistencies between the ISSA documentation, namely the ISSM, ISPM and IAH, IATA should be contacted for clarification and correction.

□ **IATA Dangerous Goods Regulations (DGR)**

□ The DGR is a manual that is published annually and is effective on 1 January of each calendar year.

△ The ISSM may be published in different month of the same year, which creates the potential for conflicting DGR-ISSM requirements. In the case of a DGR-ISM conflict, the requirement contained in the current effective version of the DGR shall be considered valid.

△ 14 Definitions and Abbreviations

The IATA Reference Manual for Audit Programs (IRM) contains the Glossary of Terms and the List of Abbreviations that are associated with the audit programs.

□ 15 ISSA Documents and Forms

ISSA documents and forms that are referenced in this manual are available for download on the ISSA website (<http://www.iata.org/issa>).

16 Authority

The ISSA Program operates under the authority of the IATA Operations Committee (OPC) with reference to the IATA Board of Governors (BoG).

Section 1 — Organization and Management System (ORG)

Applicability

[Section 1](#) addresses the organization and management system of an operator for the purpose of ensuring the safety and security of aircraft operations.

Individual ORG provisions or sub-specifications within an ORG provision that:

- Begin with a conditional phrase (“If the Operator...”) are applicable if the operator meets the condition(s) stated in the phrase.
- Do not begin with a conditional phrase are applicable to all operators unless determined otherwise by the Auditor.

General Guidance

△ Definitions of technical terms used in this ISSM [Section 1](#), as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

1 Management and Control

1.1 Organization and Accountability

ORG 1.1.1 The Operator shall have a management system that has continuity throughout the organization and ensures control of operations and management of safety and security outcomes. **(GM)**

Auditor Actions

- Identified/Assessed** organizational management system structure.
- Assessed** status of conformity with all other ORG management system ISSARPs.
- Crosschecked** to determine status of conformity with management system standards in all operational areas.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Operations](#), [Operator](#), [Safety \(Operational\)](#), [Security \(Aviation\)](#) and [State](#).

A management system is documented in controlled company media at both the corporate and operational levels. Manuals or controlled electronic media are acceptable means of documenting the management system.

Documentation provides a comprehensive description of the scope, structure and functionality of the management system and depicts lines of accountability throughout the organization, as well as authorities, duties, responsibilities and the interrelation of functions and activities within the system for ensuring safe and secure operations.

Acceptable means of documentation include, but are not limited to, organograms (organization charts), job descriptions and other descriptive written material that define and clearly delineate the management system.

Documentation also reflects a functional continuity within the management system that ensures the entire organization works as a system and not as a group of independent or fragmented units (i.e., silo effect).

An effective management system is fully implemented and functional with a clear consistency and unity of purpose between corporate management and management in the operational areas.

The management system ensures compliance with all applicable standards and regulatory requirements. In addition to internal standards and regulations of the State, an operator may also be required to comply with authorities that have jurisdiction over operations that are conducted over the high seas or within a foreign country.

ORG 1.1.2 The Operator shall have a valid Air Operator Certificate (AOC) or equivalent document issued by the State of the Operator (hereinafter, the State) that authorizes the Operator to conduct commercial air transport operations in accordance with specified conditions and limitations. The AOC and/or associated documents shall include:

- (i) Operator identification (name and location);
- (ii) Date of issue and period of validity;
- (iii) Description of types of operations authorized;
- (iv) Type(s) of aircraft authorized for use;
- (v) Authorized areas of operation or routes;
- (vi) Exemptions, deviations and waivers (listed by name);
- (vii) Special authorizations, to include, as applicable:
 - (a) Low visibility takeoff (LVTO);
 - (b) CAT II and/or III approaches;
 - (c) Head-up displays (HUD) and enhanced vision systems (EVS) operations (if such systems are used to gain operational benefit);
 - (d) GPS approaches;
 - (e) EDTO;
 - (f) RVSM operations;
 - (g) MNPS operations;
 - (h) AR navigation specifications for PBN operations;
 - (i) Transport of dangerous goods as cargo (if AOC authorization is required for the transport of dangerous goods);
 - (j) Electronic Flight Bag (EFB) operations (if approval for such operations is required by the Authority). **(GM)**

Note: An ETOPS approval is equivalent to an EDTO approval.

Auditor Actions

- Identified** the documents that authorize the Operator to conduct commercial air transport operations in accordance with conditions and limitations specified by the State.
- Interviewed** responsible manager(s) in flight operations.
- Examined** AOC (focus: information is current and relevant to the Operator).
- Crosschecked** AOC against OM (focus: authorizations/limitations consistent with operations conducted by Operator).
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of Electronic Flight Bag (EFB), EDTO (Extended Diversion Time operations), Enhanced Visual System (EVS), Head-up Display (HUD), Minimum Navigation Performance Specifications (MNPS), PBN Navigation Specification AR (Authorization Required), Reduced Vertical Separation Minima (RVSM), Required Navigation Performance (RNP) and State.

The specifications of this provision require the conditions and limitations of any State-approved or State-accepted air transport operations, conducted by the operator, to be described in the AOC, AOC equivalents and/or associated documents.

The AOC is produced (by the State) in a manner consistent with local conditions for State approval or acceptance. This should not preclude the operator from describing authorized operations, including conditions and limitations for such operations, in associated documents and in a manner consistent with the specifications of this provision. Such documents typically include the OM or any operational document that describes the conditions and limitations of authorized operations.

The exemptions, deviations, waivers and special authorizations in specifications vi) and vii) may be described in State-approved or State-accepted documents other than the AOC. Operators subject to laws or regulations of the State that prevent the issuance of an AOC consistent with the specifications of this provision and/or prohibit the description of authorized operations in a manner consistent with the specifications of this provision may demonstrate an equivalent method of ensuring the specifications of this provision are satisfied.

The period of validity is designated on the AOC or determined by reference to the dates of issuance and expiration.

The specification in item vii) e) refers to aircraft operated on routes where the diversion time from any point on the route to an en route alternate airport exceeds the threshold time but is within the maximum diversion time as established by the State.

△ **ORG 1.1.3** The Operator shall identify one senior management official as the Accountable Executive (AE) who is accountable for performance of the management system as specified in **ORG 1.1.1** and:

- (i) Irrespective of other functions, has ultimate responsibility and accountability on behalf of the Operator for the implementation and maintenance of the safety management system (SMS) throughout the organization;
- (ii) Has the authority to ensure the allocation of resources necessary to manage safety and security risks to aircraft operations;
- (iii) Has overall responsibility and is accountable for ensuring operations are conducted in accordance with conditions and restrictions of the Air Operator Certificate (AOC), and in compliance with applicable regulations and standards of the Operator. **[SMS] (GM)**

Auditor Actions

- Identified** senior management official designated as the accountable executive for the conduct of operations.
- Examined** management system structure and organizational lines of accountability.
- Examined** job description of designated accountable executive to determine if assigned responsibilities are in accordance with the standard.
- Interviewed** accountable executive and/or designated management representative(s).
- Other Actions** (Specify)

Guidance

△ Refer to the IRM for the definitions of [Accountability](#), [Accountable Executive \(AE\)](#), [Authority](#), [Aircraft Operations](#), [Responsibility](#), [Safety Risk Management](#) and [Senior Management](#).

△ The requirement for an AE is an element of the Safety Policy and Objectives component of the SMS framework.

△ The designation of an AE means the accountability for safety and security performance is placed at a level in the organization having the authority to take action to ensure the management system is effective. Therefore, the AE is typically the chief executive officer (CEO), although, depending on the type and structure of the organization, it could be a different senior official (e.g. chairperson/member of the board of directors, company owner).

△ The AE has the authority, which includes financial control, to make policy decisions, provide adequate resources, resolve operational quality, safety and security issues and, in general, ensure necessary system components are in place and functioning properly.

- △ In an SMS, the AE would typically have:
- Ultimate responsibility and accountability for the safety of the entire operation together with the implementation and maintenance of the SMS;
 - Responsibility for ensuring the SMS is properly implemented in all areas of the organization and performing in accordance with specified requirements.

- △ The AE also is responsible for ensuring the organization is in compliance with requirements of applicable authorities (i.e. regulations), as well as its own policies and procedures, which may exceed existing regulations or address areas that are not regulated (e.g. ground handling operations). An operator's policies and procedures are typically published in its Operations Manual (OM).

- △ To ensure that the operator continues to meet applicable requirements, the AE might designate a manager with the responsibility for monitoring compliance. The role of such manager would be to ensure that the activities of the operator are monitored for compliance with the applicable regulatory requirements, as well as any additional requirements as established by the operator, and that these activities are being carried out properly under the supervision of the relevant head of functional area. Expanded guidance may be found in the ICAO SMM, Document 9859.

- **ORG 1.1.4** If required by the State of the Operator (hereinafter, the State), the Operator shall have post holders within the management system that are acceptable to the Authority and have the accountability for ensuring, in their respective defined operational areas:
- (i) The management of safety risks and security threats to aircraft operations;
 - (ii) Operations are conducted in accordance with conditions and restrictions of the Air Operator Certificate (AOC), and in compliance with applicable regulations and standards of the Operator. **(GM)**

Auditor Actions

- **Identified** post holders accountable for the conduct of operations.
- **Examined** management system structure and organizational lines of accountability.
- **Examined** job descriptions of all post holders throughout the organization (focus: accountability/responsibilities are as specified in the standard).
- **Interviewed** AE and/or designated management representative(s).
- **Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of Post Holder.

Managers in such positions might be referred to as post holders, directors or another title as specified by each State.

ORG 1.1.5–1.1.9 (Intentionally open)

- △ **Safety Management System**

ORG 1.1.10 The Operator *should* have an SMS that is implemented and integrated throughout the organization to ensure management of the safety risks associated with aircraft operations.

[SMS] (GM)

Note 1: *Conformity with this ORG recommended practice is possible only when the Operator is in conformity with all standards and recommended practices that are identified by the [SMS] symbol.*

Note 2: *Effective 1 November 2024, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified/Assessed** safety management system (SMS) structure.
- Interviewed** SMS accountable executive and/or designated management representative(s).
- Assessed** conformity with all ORG SMS ISSARPs.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Safety Management System \(SMS\)](#) and [State Safety Program \(SSP\)](#).

The specifications for an operator's SMS in this recommended practice are derived from the SMS Framework, which is published in Annex 19 to the Convention on International Civil Aviation (ICAO Annex 19). The SMS Framework specifies the four major components and 12 elements that make up the basic structure of an SMS.

Where applicable, an SMS is designed and implemented in accordance with the State Safety Program (SSP). The manner in which the elements of SMS are implemented typically reflects the size and complexity of the operator's organization.

In general, an SMS is designed and implemented to:

- Identify safety hazards in operations;
- Ensure remedial action is implemented to control safety risks;
- Provide for ongoing monitoring and assessment of safety performance;
- Make continual improvement to the level of safety in operations.

The specific requirements for each operator's SMS will normally be found in the regulations associated with the SSP. In addition, states would typically publish guidance designed to assist operators in the implementation of SMS.

A description of an operator's SMS is contained in documentation as specified in [ORG 2.1.5](#).

Expanded guidance may be found in the ICAO Safety Management Manual (ICAO SMM), Document 9859.

⊗

ORG 1.1.11 (Intentionally open)

△

ORG 1.1.12 The Operator *should* designate a manager who is responsible for the implementation, maintenance and day-to-day administration of the SMS throughout the organization on behalf of the AE and senior management. **[SMS] (GM)**

△

Note: *Effective 1 November 2022, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified** designated manager for day-to-day administration and oversight of the SMS.
- Examined** SMS organizational structure.
- Examined** job description of SMS manager.
- Interviewed** SMS manager and/or designated representative.
- Other Actions** (Specify)

Guidance

△

The requirement for a manager that focuses on the administration and oversight of the SMS on behalf of the AE is an element of the Safety Policy and Objectives component of the SMS framework.

△

The individual assigned responsibility for organizational implementation of an SMS is ideally a management official that reports to the AE. Also, depending on the size, structure and scope of an operator's organization, as well as the complexity of its operations such individual may be assigned functions in addition to those associated with the SMS manager position provided those functions do not result in a conflict of interest.

The title assigned to the designated manager will vary for each organization. Regardless of title, the manager is the designated organizational focal point for the day-to-day development, administration and maintenance of the SMS (i.e. functions as the SMS *champion*). It is important that such manager has the necessary degree of authority when coordinating and addressing safety matters throughout the organization.

Whereas the designated manager has responsibility for day-to-day oversight of the SMS, overall accountability for organizational safety rests with the accountable executive. Likewise, nominated officials (refer to [ORG 1.1.4](#)) or operational managers always retain the responsibility (and thus are accountable) for ensuring safety in their respective areas of operations.

- **Note:** *Depending on the size of an operator's organization and the complexity of its operations, the responsibilities for implementation and maintenance of the SMS (i.e. fulfillment of the SMS manager role) may be assigned to one or more persons.*

- ⊗ Expanded guidance may be found in the ICAO SMM, Document 9859.

1.2 Management Commitment

- △ **ORG 1.2.1** The Operator shall have a corporate safety policy that:

- (i) reflects the organizational commitment regarding safety including the promotion of a positive safety culture;
- (ii) includes a statement about the provision of the necessary resources for the implementation of the safety policy;
- (iii) is communicated throughout the organization.
- (iv) is periodically reviewed to ensure continued relevance to the organization **[SMS] (GM)**

Auditor Actions

- **Identified/Assessed** corporate safety policy.
- **Interviewed** SMS manager and/or designated management representative.
- **Examined** specific examples that verify safety policy is communicated throughout the organization.
- **Other Actions** (Specify)

Guidance

The requirement for an operator to have a defined safety policy is an element of the Safety Policy and Objectives component of the SMS framework.

The safety policy typically also reflects the commitment of senior management to:

- Compliance with applicable regulations and standards of the Operator;
- Ensuring the management of safety risks to aircraft operations;
- The promotion of safety awareness;
- Continual improvement of operational performance.

The safety policy is typically reviewed periodically to ensure continued relevance to the organization.

Such policy might be documented in the operations manual or other controlled document, and, to enhance effectiveness, is communicated and made visible throughout the organization through dissemination of communiqués, posters, banners and other forms of information in a form and language which can be easily understood. To ensure continuing relevance, the corporate policy is normally reviewed for possible update a minimum of every two years.

Consistent with the structure and complexity of the operator's organization, the corporate safety policy may be issued as a stand-alone policy or combined with the policy specified in [ORG 1.2.3](#).

Expanded guidance may be found in the ICAO SMM, Document 9859.

ORG 1.2.2 (Intentionally open)

△ **ORG 1.2.3** The Operator *should* have a corporate safety reporting policy that encourages personnel to report hazards to aircraft operations and, in addition, defines the Operator's policy regarding disciplinary action, to include:

- (i) Types of operational behaviors that are unacceptable;
- (ii) Conditions under which disciplinary action would not apply. **[SMS] (GM)**

△ **Note:** *Effective 1 November 2021, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified/Assessed** corporate safety policy that meets the specifications of this provision.
- Interviewed** accountable executive and/or designated management representative(s).
- Assessed** implementation of safety reporting in all operational areas.
- Other Actions** (Specify)

Guidance

The requirement for an operator to have a safety reporting policy is an element of the Safety Policy and Objectives component of the SMS framework.

Safety reporting is a key aspect of SMS hazard identification and risk management.

Such a policy is typically documented in operations manuals or other controlled documents.

Consistent with the structure and complexity of the operator's organization, the safety reporting policy may be issued as a stand-alone policy or combined with the safety policy specified in [ORG 1.2.1](#).

A safety reporting policy encourages and perhaps even provides incentive for individuals to report hazards and operational deficiencies to management. It also assures personnel that their candid input is highly desired and vital to safe and secure operations.

The safety reporting policy is typically reviewed periodically to ensure continuing relevance to the organization.

△ Refer to [ORG 3.1.3](#), which specifies the operational safety reporting system.

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1.3 Accountabilities, Authorities and Responsibilities

ORG 1.3.1 The Operator shall ensure the management system defines the safety accountabilities, authorities and responsibilities of management and non-management personnel throughout the organization, and specifies:

- △ (i) The levels of management with the authority to make decisions regarding risk tolerability with respect to the safety and/or security of aircraft operations;
- (ii) Responsibilities for ensuring operations are conducted in accordance with applicable regulations and standards of the Operator;
- △ (iii) Lines of safety accountability throughout the organization, including direct accountability for safety and/or security on the part of senior management;
- △ (iv) Responsibilities of members of management, irrespective of other functions, as well as of non-management personnel, with respect to the safety performance of the organization. **[SMS] (GM)**

Auditor Actions

- Identified/Assessed** definition of authorities and responsibilities throughout the organization.
- Interviewed** accountable executive and/or designated management representative(s).
- Assessed defined** authorities and responsibilities for management and non-management personnel in all operational areas.
- Other Actions** (Specify)

Guidance

The definition of authorities and responsibilities of management and non-management personnel is an element of the Safety Policy and Objectives component of the SMS framework.

- △ In the context of the management system, the following typically apply:
- Accountability is the obligation to accept ultimate responsibility and be answerable for decisions and policies, and for the performance of applicable functions, duties, tasks or actions. Accountability may not be delegated.
 - Authority is the delegated power or right to command or direct activities, and to make decisions.
 - Responsibility is the obligation to execute or perform assigned functions, duties, tasks and/or actions. Responsibility may be accompanied by an appropriate level of delegated authority.
- △ In the context of an SMS, the assignment of responsibility to individual personnel means such personnel are ultimately accountable for safety performance, whether at the overall SMS level (accountable executive) or at specific product and/or process levels (other applicable members of management). An effective management system ensures that responsibilities, and thus accountability, for safety and security are allocated to relevant management and non-management personnel that perform safety- or security-related functions, or that have a defined role in the SMS.
- △ Responsibilities and accountability are typically defined in the functional job description for such personnel and are designed to flow from corporate senior management into all operational areas of the organization.
- △ Responsibilities and accountability are normally described and communicated in a manner that ensures a clear understanding throughout the organization. Organization charts, or organograms, are typically used to depict the functional reporting system of an organization, and thus are an acceptable means for defining the flow (or “lines” as depicted on an organogram) of responsibilities and accountability within the management system.
- Management positions critical to operational safety or security may require enhanced job descriptions or terms of reference that reflect specialized requirements inherent in certain key positions. Such specialized requirements would include any delegation of authority exercised by personnel on behalf of an authority (e.g., designated or authorized flight examiner).
- Compliance with regulatory requirements, as well as internal policies and procedures, is an essential element of a safe and secure operational environment. The responsibility for ensuring compliance with both regulatory and internal requirements is specified and assigned within the management system. Job descriptions, terms of reference and operating manuals are examples of appropriate locations for documenting management system responsibilities.
- Expanded guidance may be found in the ICAO SMM, Document 9859.

1.4 Communication

- △ **ORG 1.4.2** The Operator *should* have processes for the communication of safety information throughout the organization to ensure personnel maintain an awareness of the SMS and current operational safety issues. **[SMS] (GM)**
- △ **Note:** *Effective 1 November 2021, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified/Assessed** corporate system(s) for communicating of safety information throughout the organization.
- Interviewed** accountable executive and/or designated management representative(s).
- Examined** examples of safety information communication.
- Assessed** communication of

Guidance

Safety communication is an element of the Safety Promotion component of the SMS framework.

The general intent of safety communication is to foster a positive safety culture in which all employees receive ongoing information on safety issues, safety metrics, specific hazards existing in the workplace, and initiatives to address known safety issues. Such communication typically conveys safety-critical information, and explains why particular safety actions are taken and why safety procedures are introduced or changed.

- Information and issues relevant to safety performance are typically derived from various sources such as, but not limited to, the quality assurance/flight safety analysis programs, operational safety reporting and accident/incident investigations.
- Expanded guidance may be found in the ICAO SMM, Document 9859.

1.5 Management Review

- ORG 1.5.1** The Operator shall have a process to review the management system at intervals not exceeding one year to ensure its continuing suitability, adequacy and effectiveness in the management and control of operations. A review shall include assessing opportunities for improvement and the need for changes to the system, including, but not limited to, organizational structure, defined safety objectives, reporting lines, authorities, responsibilities, policies, processes and procedures, as well as allocation of resources and identification of training needs. **(GM)**

Auditor Actions

- Identified/Assessed** corporate management review process (focus: process identifies organizational opportunities for changes/improvement to management system).
- Interviewed** AE and/or designated management representative(s).
- Examined** selected records of management review meetings.
- Examined** selected examples of output from management review process (focus: changes implemented to improve organizational performance).
- Other Actions** (Specify)

Guidance

Management review is a necessary element of a well-managed company that provides a medium through which organizational control and continual improvement can be delivered. To be effective, a formal management review takes place on a regular basis, typically once or more per year.

An appropriate method to satisfy this requirement is a periodic formal meeting of senior executives.

The agenda of the meeting would typically include a general assessment of the management system to ensure all defined elements are functioning effectively and producing the desired operational safety outcomes consistent with defined safety objectives.

Senior management ensures deficiencies identified during the management review are addressed through the implementation of organizational changes that will result in improvements to the management system.

Input to the management review process would typically include:

- Results of audits;
- Findings from operational inspections and investigations;
- Operational feedback;
- Incidents and near-miss reports;
- Changes in regulatory policy or civil aviation legislation;

- Process performance and organizational conformance;
- Status of corrective and preventative actions;
- Results from implementation or rehearsal of the emergency response plan (ERP);
- Follow-up actions from previous management reviews;
- Feedback and recommendations for management system improvement;
- Regulatory violations.

Output from the management review process would typically include decisions and actions related to:

- Improvement of the processes throughout the management system;
- Safety and security requirements;
- Resource needs.

The management review is a formal process, which means documentation in the form of meeting schedules, agendas and minutes are produced and retained. Additionally, the output of the management review process would normally include action plans for changes to be implemented within the system where deemed appropriate.

Examples of strategies that might improve the overall effectiveness of the management review process include:

- Integrating the management review meeting into other performance review meetings;
- Scheduling management review meetings frequently enough to ensure any action that might be required is timely;
- Ensuring senior managers understand their responsibilities as part of the review process;
- Ensuring action items resulting from meetings are documented and progress is tracked;
- Ensuring there is always a responsible name associated with action items.

△ **ORG 1.5.2** The Operator *should* have processes to monitor and assess its SMS processes in order to maintain or continually improve the overall effectiveness of the SMS. **[SMS] (GM)**

△ **Note:** *Effective 1 November 2022, this recommended practice will be upgraded to a standard.*

Auditor Actions

- △ **Identified/Assessed** SMS review process (focus: processes for monitoring and assessing SMS to maintain/improve safety performance).
- △ **Interviewed** AE and/or designated management representative(s).
- △ **Examined** selected examples of output from SMS review process (focus: changes implemented to maintain/improve organizational safety performance).
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Safety Assurance](#), [Safety Action Group \(SAG\)](#), [Safety Review Board \(SRB\)](#) and [Substandard Performance](#).

△ Safety performance monitoring and measurement is an element of the Safety Assurance component of the SMS framework.

△ Monitoring and assessing the effectiveness of SMS processes would normally be the function of strategic committee of senior management officials that are familiar with the workings and objectives of the SMS. Such committee is typically referred to as a Safety Review Board (SRB), which is a very high level, strategic committee chaired by the AE and composed of senior managers, including senior line managers responsible for functional areas in operations (e.g. flight operations, engineering and maintenance, cabin operations).

To ensure front line input as part of the SMS review process, an operator would form multiple units of specially selected operational personnel (e.g. managers, supervisors, front line personnel) that function to oversee safety in areas where operations are conducted. Such units are typically referred to as Safety Action Groups (SAGs), which are tactical committees that function to address implementation issues in front line operations to satisfy the strategic directives of the SRB.

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Expanded guidance may be found in the ICAO SMM, Document 9859.

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1.6 Provision of Resources

ORG 1.6.1–1.6.4 (Intentionally open)

ORG 1.6.5 The Operator *should* have a program that ensures personnel throughout the organization are trained and competent to perform SMS duties. The scope of such training *should* be appropriate to each individual's involvement in the SMS. **[SMS] (GM)**

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Note: *Effective 1 November 2022, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified/Assessed** program for ensuring personnel are trained and competent to perform SMS duties.
- Interviewed** SMS manager and/or designated management representative(s).
- Examined** selected initial and recurrent training curricula.
- Examined** selected personnel training records.
- Assessed** program implementation in all operational areas.
- Other Actions** (Specify)

Guidance

SMS training is an element of the Safety Promotion component of the SMS framework.

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An SMS typically specifies initial and recurrent safety training standards for personnel that perform operational functions for the operator, to include managers and supervisors, senior managers and the AE.

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The content of such training is appropriate to the individual's responsibilities and involvement in the SMS, and typically includes or addresses some or all of the following subject areas:

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- Organizational safety policies, goals and objectives;
- Organizational safety roles and responsibilities related to safety;
- Basic safety risk management principles;
- Safety reporting systems;
- Safety management support (including evaluation and audit programs);
- Lines of communication for dissemination of safety information;
- A validation process that measures the effectiveness of training;
- Initial indoctrination and, when applicable, recurrent training requirements.

Expanded guidance may be found in the ICAO SMM, Document 9859.

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1.7 (Intentionally Open)

1.8 (Intentionally Open)

2 Documentation and Records

2.1 Documentation System

ORG 2.1.1 The Operator shall have a system for the management and control of documentation and/or data used directly in the conduct or support of operations. Such system shall comprise the elements specified in [Table 1.1](#). **(GM)**

Auditor Actions

- Identified/Assessed** system(s) for management and control of operational documentation and data as specified in [Table 1.1](#).
- Interviewed** responsible management representative(s).
- Examined** selected examples of documentation and data used in operations.
- Interviewed** persons involved in the documentation management and control process.

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Guidance

Refer to the IRM for the definition of [Documentation](#) and [Electronic Documentation](#).

The primary purpose of document control is to ensure necessary, accurate and up-to-date documents are available to those personnel required to use them, to include, in the case of outsourced operational functions, employees of external service providers.

Examples of documents that are controlled include, but are not limited to, operations manuals, checklists, quality manuals, training manuals, process standards, policy manuals, and standard operating procedures.

Documentation received from external sources would include manuals and other types of relevant documents that contain material that is pertinent to the safety of operations conducted by the operator (e.g. regulations, operating standards, technical information and data).

An electronic system of document management and control is an acceptable means of conformance. Within such a system, document files are typically created, maintained, identified, revised, distributed, accessed, presented, retained and/or deleted using computer systems (e.g. a web-based system). Some systems specify immediate obsolescence for any information or data that is downloaded or otherwise extracted (e.g. printed on paper) from the electronic files.

Document control might include:

- Retention of a master copy;
- Examination and approval prior to issue;
- Review and update, to include an approval process;
- Version control (electronic documents);
- Identification of revision status;
- Identification and retention of revisions as history;
- Identification and retention of background or source references as history;
- Distribution to ensure appropriate availability at points of use;
- Checking of documents to verify they remain legible and readily identifiable;
- As required, identification, update, distribution and retention of documents of external origin;
- As applicable, identification and retention of obsolete documents;
- As applicable, disposal of documents.

Additionally, control of operational manuals might include:

- Assignment of an individual with responsibility for approval for contents;
- A title page that generally identifies the operational applicability and functionality;
- A table of contents that identifies parts and sub-parts;
- A preface or introduction outlining the general contents of the manual;
- Reference numbers for the content of the manual;
- A defined distribution method and identification of recipients;
- Identification of responsibility for authorizing the manual;
- A record of revisions, both temporary and permanent;
- A list of effective pages within the manual;
- Identification of revised content.

Each “loose” documented procedure that is not held within a manual typically includes:

- A title page that identifies the operational applicability and functionality;
- Identification of the date(s) of issue and date of effectiveness;
- Reference numbers for the content;
- A distribution list;
- Identification of responsibility for authorizing the document.

ORG 2.1.2–2.1.4 (Intentionally open)

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ORG 2.1.5 The *Operator should* have SMS documentation that includes:

- (i) The safety policy and objectives, SMS requirements, SMS processes and procedures, the accountabilities, authorities and responsibilities for processes and procedures, and the SMS outputs;
- (ii) A description of its approach to the management of safety, which is contained in a manual as a means of communication throughout the organization.
- (iii) SMS operational records **[SMS] (GM)**

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Note: Effective 1 November 2022, this recommended practice will be upgraded to a standard.

Auditor Actions

- Identified/Assessed** management and control system for SMS documentation.
- Interviewed** SMS manager and/or designated management representative(s).
- Examined** SMS documentation.
- Other Actions** (Specify)

Guidance

SMS documentation is an element of the Safety Policy and Objectives component of the SMS framework.

SMS documentation is typically scaled to the size and complexity of the organization, and describes both the corporate and operational areas of safety management to show continuity of the SMS throughout the organization. Typical documentation would include a description of management positions and associated accountabilities, authorities, and responsibilities within the SMS.

To ensure personnel throughout the organization are informed, SMS documentation includes a description of the operator's approach to safety management. Such descriptive information would be contained in a manual and presented in a manner that ensures the SMS information is clearly identifiable. The exact title and structure of such manual will vary with each operator.

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Depending on the size, structure and scope of an operator's organization, as well as the complexity of its operations, SMS documentation may be in the form of stand-alone documents or may be integrated into other organizational documents. Requirements for SMS documentation will vary according to the individual state safety program (SSP).

SMS documentation typically addresses:

- Scope of the SMS;
- Safety policy and objectives;
- Safety accountabilities;
- Key safety personnel;
- Documentation control procedures;
- Coordination of emergency response planning;
- Hazard identification and risk management schemes;
- Safety assurance;
- Safety performance monitoring;
- Safety auditing (safety and quality auditing may be combined);
- Management of change;
- Safety promotion;
- Outsourced services.

- SMS documentation typically includes the compilation and maintenance of operational records substantiating the existence and ongoing operation of the SMS. Operational records are the outputs of the SMS processes and procedures (e.g. safety risk management and safety assurance activities). SMS operational records should be stored and kept in accordance with existing retention periods.

Typical SMS operational records should include:

- Hazards register and hazard/safety reports;
- SPIs and related charts;
- Record of completed safety risk assessments;
- SMS internal review or audit records;
- internal audit records;
- SMS/safety training records;
- SMS/safety committee meeting minutes;
- SMS implementation plan (during the initial implementation);
- Gap analysis to support implementation plan.

- Depending on the size and complexity of operations, an operator's SMS records may be maintained in a stand-alone system or integrated with the operator's operational records system as specified in [ORG 2.2.1](#).

Expanded guidance may be found in the ICAO SMM, Document 9859.

2.2 Records System

ORG 2.2.1 The Operator shall have a system for the management and control of operational records to ensure the content and retention of such records is in accordance with requirements of the Authority, as applicable, and to ensure operational records are subjected to standardized processes for:

- (i) Identification;
- (ii) Legibility;
- (iii) Maintenance;

- (iv) Retrieval;
- (v) Protection and security;
- (vi) Disposal, deletion (electronic records) and archiving. **(GM)**

Auditor Actions

- Identified/Assessed** management and control system for operational records.
- Interviewed** responsible management representative(s).
- Examined** selected examples of operational records.
- Other Actions** (Specify)

Guidance

The system addresses the management and control of all records associated with operations, which includes personnel training records, and also includes any other records that document the fulfillment of operational requirements (e.g. aircraft maintenance, operational control, operational security).

3 Safety Management

3.1 Safety Risk Management

ORG 3.1.1 The Operator *should* have a hazard identification program that is implemented and integrated throughout the organization, to include:

- (i) A combination of reactive and proactive methods for safety data collection;
- (ii) Processes for safety data analysis that identify existing hazards and predict future hazards to aircraft operations. **[SMS] (GM)**

△ **Note:** Effective 1 November 2023, this recommended practice will be upgraded to a standard.

Auditor Actions

- Identified/Assessed** organizational safety hazard identification program.
- Identified/Assessed** method(s) of safety data collection used for hazard identification.
- Identified/Assessed** method(s) of safety data analysis used for hazard identification.
- Identified/Assessed** process that ensures an organization-wide, cross-discipline integration of the safety hazard identification program.
- Interviewed** SMS manager and/or designated management representative(s).
- Examined** records/documents that illustrate the integration of the hazard identification program across all disciplines throughout the organization.
- Examined** selected examples of hazards to aircraft operations that have been identified through data collection and analysis.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Hazard \(Aircraft Operations\)](#) and [Safety Risk](#).

Hazard identification is an element of the Safety Risk Management component of the SMS framework.

The methods used to identify hazards will typically depend on the resources and constraints of each particular organization. Some organizations might deploy comprehensive, technology-intensive hazard identification processes, while organizations with smaller, less complex operations might implement more modest hazard identification processes. Regardless of organizational size or complexity, to ensure all hazards are identified to the extent possible, hazard identification processes are necessarily formalized, coordinated and consistently applied on an on-going basis in all areas of the organization where there is a potential for hazards that could affect aircraft operations.

△ To be effective, reactive and proactive processes are used to acquire information and data, which are then analyzed to identify existing or predict future (i.e. potential) hazards to aircraft operations.

Examples of processes that typically yield information or data for hazard identification include:

- Confidential or other reporting by personnel;
- Investigation of accidents, incidents, irregularities and other non-normal events;
- Flight data analysis;
- Observation of flight crew performance in line operations and training;
- Quality assurance and/or safety auditing;
- Safety information gathering or exchange (external sources).

Processes would be designed to identify hazards that might be associated with organizational business changes (e.g. addition of new routes or destinations, acquisition of new aircraft type(s), the introduction of significant outsourcing of operational functions).

Typically hazards are assigned a tracking number and recorded in a log or database. Each log or database entry would normally include a description of the hazard, as well as other information necessary to track associated risk assessment and mitigation activities.

Expanded guidance may be found in the ICAO SMM, Document 9859.

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ORG 3.1.2 The Operator *should* have a safety risk assessment and mitigation program that includes processes implemented and integrated throughout the organization to ensure:

- (i) Hazards are analyzed to determine corresponding safety risks to aircraft operations;
- (ii) Safety risks are assessed to determine the requirement for risk mitigation action(s);
- (iii) When required, risk mitigation actions are developed and implemented in operations.

[SMS] (GM)

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Note: *Effective 1 November 2023, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified/Assessed** organizational safety risk assessment and mitigation program.
- Identified/Assessed** process that ensures an organization-wide, cross-discipline integration of the safety risk assessment and mitigation program.
- Interviewed** SMS manager and/or designated management representative (s).
- Examined** records/documents that illustrate the integration of the risk assessment and mitigation program throughout the organization.
- Examined** selected records/documents that provide examples of risk assessment and resulting risk mitigation action(s).
- Other Actions** (Specify)

Guidance

Refer to IRM for the definition of Safety Risk Assessment (SRA).

Risk assessment and mitigation is an element of the Safety Risk Management component of the SMS framework.

To be completely effective, a risk assessment and mitigation program would typically be implemented in a manner that:

- Is active in all areas of the organization where there is a potential for hazards that could affect aircraft operations;
- Has some form of central coordination to ensure all existing or potential hazards that have been identified are subjected to risk assessment and, if applicable, mitigation.

The safety risks associated with an identified existing or potential hazard are assessed in the context of the potentially damaging consequences related to the hazard. Safety risks are generally expressed in two components:

- Likelihood of an occurrence;
- Severity of the consequence of an occurrence.

Typically, matrices that quantify safety risk acceptance levels are developed to ensure standardization and consistency in the risk assessment process. Separate matrices with different risk acceptance criteria are sometimes utilized to address long-term versus short-term operations.

A risk register is often employed for the purpose of documenting risk assessment information and monitoring risk mitigation (control) actions.

Expanded guidance may be found in the ICAO SMM, Document 9859.

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Operational Reporting

ORG 3.1.3 The Operator shall have an operational safety reporting system that is implemented throughout the organization in a manner that:

- (i) Encourages and facilitates personnel to submit reports that identify safety hazards, expose safety deficiencies and raise safety concerns;
- (ii) Ensures mandatory reporting in accordance with applicable regulations;
- (iii) Includes analysis and management action as necessary to address safety issues identified through the reporting system. **[SMS] (GM)**

Auditor Actions

- Identified/Assessed** organizational operational safety reporting system.
- Interviewed** SMS manager and/or designated management representative (s).
- Examined** selected records/reports that track safety reporting by operational personnel throughout the organization.
- Other Actions** (Specify)

Guidance

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Safety reporting is a key aspect of SMS hazard identification and risk management.

Frontline personnel, such as flight or cabin crew members and maintenance technicians, are exposed to hazards and face challenging situations as part of their everyday activities. An operational reporting system provides such personnel with a means to report these hazards or any other safety concerns so they may be brought to the attention of relevant managers.

To build confidence in the reporting process and encourage more reporting, an acknowledgement of receipt is typically provided to each person that submits a report.

An effective system provides for a review and analysis of each report to determine whether a real safety issue exists, and if so, ensure development and implementation of appropriate action by responsible management to correct the situation.

Expanded guidance may be found in the ICAO SMM, Document 9859.

3.2 Safety Assurance

ORG 3.2.1 The Operator *should* have processes for setting performance measures as a means to monitor the operational safety performance of the organization and to validate the effectiveness of safety risk controls. **[SMS] [GM]**

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Note: *Effective 1 November 2024, this recommended practice will be upgraded to a standard.*

Auditor Actions

- Identified/Assessed** organizational program for setting performance measures.
- Interviewed** SMS manager and/or designated management representative (s).
- Examined** records/reports that track setting of performance measures throughout the organization.
- Examined** examples of specific performance measures currently being tracked.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Performance Measures](#).

Setting measurable safety objectives is an element of the Safety Assurance component of the SMS framework.

By setting performance measures, an operator is able to track and compare its operational performance against a target (i.e. the performance objective, typically expressed as a rate or number reduction) over a period of time (e.g. one year). Achievement of the target (or objective) would represent an improvement in the operational performance. The use of performance measures is an effective method to determine if desired safety outcomes are being achieved, and to focus attention on the performance of the organization in managing operational risks and maintaining compliance with relevant regulatory requirements.

In addressing operational performance, meaningful measures typically focus on lower level (i.e. lower consequence) occurrences or conditions that are considered by the operator to be precursors to serious events. Performance measures may be specific to a certain area of operations or may be broad and apply to the entire system.

In addressing compliance, meaningful measures, as a minimum, would focus on compliance with significant regulatory requirements (as determined by the operator) in all operational areas.

Ideally, performance measures are designed to be challenging, which, in turn, enhances the effectiveness of the risk management system.

Performance measures may be set in almost any operations or maintenance area. Some possible examples include:

- Flight operations (e.g., landing tail strikes, unsatisfactory line or training evaluations);
- Operational control (e.g., fuel diversions due to fuel);
- Engineering and maintenance (in-flight engine shutdowns, aircraft component/equipment failures);
- Cabin operations (inadvertent slide deployments);
- Ground handling (aircraft damages due to vehicles or equipment);
- Cargo operations (dangerous goods spills);
- Operational security (unauthorized interference or access events).

Expanded guidance may be found in the ICAO SMM, Document 9859.

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ORG 3.2.2 The Operator *should* have a process to identify changes within or external to the organization that have the potential to affect the level of safety risks associated with aircraft operations, and to manage risks that may arise from or are affected by such changes in accordance with [ORG 3.1.1](#) and [ORG 3.1.2 \[SMS\] \(GM\)](#)

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Note: *Effective 1 November 2024, this recommended practice will be upgraded to a standard.*

Auditor Actions

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Identified/Assessed organizational change management process (focus: process identifies/assesses internal/external changes to determine operational safety risk).

Interviewed SMS manager and/or designated management representative(s).

△

Examined selected records/documents that show processing of internal/external changes (focus: assessment of changes to determine safety risk; actions taken to implement/revise new/existing risk controls).

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Coordinated to verify implementation of change management process in all operational areas.

Other Actions (Specify)

Guidance

Refer to the IRM for the definition of [Change Management](#).

△ Change management is an element of the Safety Assurance component of the SMS framework and is considered a proactive hazard identification activity in an SMS.

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Safety risk management requires an operator to have a formal process to identify hazards that may affect aircraft operations. Hazards may exist in ongoing aircraft operations or be inadvertently introduced whenever internal or external changes occur that could affect aircraft operations. In such cases, hazard identification as specified in [ORG 3.1.1](#) and safety risk assessment and mitigation as specified in [ORG 3.1.2](#) (both are repeated in other ISM sections) are integral elements of an operator's change management process.

△ A change management process is normally designed to ensure risk management is applied to any internal or external change that has the potential to affect an operator's established operational processes, procedures, products, equipment and services.

△ The change management process typically takes into account the following three considerations:

- *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 are reviewed following change to make sure that corrective actions can be taken to control potentially emerging safety risks.
- *Stability of systems and operational environments*. Changes might be planned and under the direct control of the operator. Examples of such changes include organizational growth or contraction, the expansion of products or services delivered, or the introduction of new technologies. Changes might also be unplanned and external to the operator, such as changing economic cycles, labor unrest and changes to the political, regulatory or operating environments.
- *Past performance*. Past performance of critical systems and trend analyses in the safety assurance process is typically 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.

Expanded guidance may be found in the ICAO SMM, Document 9859.

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3.3 Flight Safety Analysis Program

ORG 3.3.1 The Operator shall have a flight safety analysis program that provides for the identification of hazards and the analysis of information and data associated with aircraft operations, to include:

- (i) Implementation of systematic processes for identifying and analyzing hazards and potentially hazardous conditions;
- (ii) Production of relevant analytical information and data for use by operational managers in the prevention of accidents and incidents. **[SMS] (GM)**

Auditor Actions

- Identified/Assessed** role/organization/structure of flight safety analysis program.
- Interviewed** SMS manager and/or designated management representative(s).
- Interviewed** flight safety analysis program manager.
- Interviewed** selected operational managers.
- Examined** examples of hazards identified under the flight safety analysis program.
- Examined** examples of information/data provided to operational managers for use in the management of safety risk.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Flight Safety Analysis Program](#).

A primary function of a flight safety analysis program is hazard identification, which is an element of the Safety Risk Management component of the SMS framework.

In many organizations the flight safety analysis program is typically known as the flight safety program.

The flight safety analysis program primarily provides operational hazard identification and data analysis services for use by operational managers.

△ For some operators the flight safety analysis program is part of an independent corporate safety structure, which typically has a direct line of reporting to senior management. This type of structure allows an effective and fully integrated system of prevention and safety across all relevant operational disciplines of the organization.

Other operators choose to have a flight safety analysis program reside within an operational unit (e.g., flight operations). In this type of system, to ensure objectivity in addressing safety matters and independence from frontline operational managers, the program manager would not only have a direct reporting line to the head of that operational unit, but also an indirect reporting line to senior management.

⊗ Documentation of the program typically includes a description of the structure, individual responsibilities, available resources and core processes associated with the program.

Expanded guidance may be found in the ICAO SMM, Document 9859.

ORG 3.3.2–3.3.9 (Intentionally open)**Program Elements**

ORG 3.3.10 The Operator shall have a process for the investigation of aircraft accidents and incidents, to include reporting of events in accordance with requirements of the State. **[SMS] (GM)**

Auditor Actions

- Identified/Assessed** accident investigation process, to include compliance with reporting requirements.
- Interviewed** responsible manager(s).
- Examined** selected accident and incident reports.
- Other Actions** (Specify)

Guidance

Accident and incident investigation is considered a *reactive* hazard identification activity in an SMS.

A primary purpose of accident and incident investigation is hazard identification, which is an element of the Safety Risk Management component of the SMS framework.

Investigations typically result in a report that describes the factors that contributed to the event, which is then made available to responsible senior operational managers to permit them to evaluate and implement appropriate corrective or preventive action.

An effective investigation process typically includes:

- Qualified personnel to conduct investigations (commensurate with operation size);
- Procedures for the conduct of investigations;
- A process for reporting investigative results;
- A system for implementing any corrective or preventive action;
- An interface with relevant external investigative authorities (when applicable);
- A process for the dissemination of information derived from investigations.

To ensure awareness among operational personnel, information derived from investigations is disseminated to relevant areas throughout the organization.

In the event of a major accident, an operator responds to and possibly participates in an investigation in accordance with provisions contained in ICAO Annex 13. Such capability requires an operator to maintain an ongoing interface with relevant investigative authorities to ensure preparedness in the event a major accident occurs.

Expanded guidance may be found in the ICAO SMM, Document 9859.

ORG 3.3.11–3.3.12 (Intentionally open)

△ **ORG 3.3.13** If the Operator conducts flights with aircraft of a maximum certified takeoff mass in excess of 27,000 kg (59,525 lb), the Operator shall have a flight data analysis (FDA) program applicable to such aircraft that is non-punitive and contains adequate safeguards to protect data sources. The FDA program shall include *either*:

- △ (i) A systematic download and analysis of electronically recorded aircraft flight data, *or*
- △ (ii) A systematic acquisition, correlation and analysis of flight information derived from a combination of some or all of the following sources:
- (a) Aircraft flight data recorder (FDR) readouts;
 - (b) Confidential flight and cabin crew operational safety reports;
 - (c) Flight and cabin crew interviews;
 - (d) Quality assurance findings;
 - (e) Flight and cabin crew evaluation reports;
 - (f) Aircraft engineering and maintenance reports. **[SMS] (GM)**

△ **Note:** *This standard is applicable only for the initial ISSA registration assessment.*

Guidance

Refer to the IRM for the definition of [Flight Data Analysis \(FDA\) Program](#).

Flight data analysis is considered a *reactive* and *proactive* hazard identification activity in an SMS.

A primary purpose of an FDA program is hazard identification, which is an element of the Safety Risk Management component of the SMS framework.

The systematic download and analysis of recorded flight data has been used by international airlines for many years to identify hazards, evaluate the operational environment, validate operating criteria and establish training effectiveness.

As a minimum, an acceptable program for the analysis of recorded aircraft flight data includes the following elements:

- A manager and staff of flight operations experts, commensurate with the size of the operation, to provide verification and analysis of the data collected from the aircraft fleet under the operator's program;
- Aircraft designated within the operator's fleet that provide downloadable flight data from onboard recording systems, such as the flight data recorder (FDR) or quick access recorder (QAR);
- A system for downloading and transferring recorded data from the aircraft to a data analysis system;

- A data analysis system that transforms raw digital data into a usable form of information that can then be verified, processed, categorized and analyzed by flight operations experts for flight safety purposes;
- A process for applying the output from flight data analysis to the management of risk and assessment of flight operations performance;
- A process for management of the data, to include security and retention.

All or certain of the elements could be outsourced to an external party; however, the operator would retain overall responsibility for the maintenance of the program.

The most comprehensive approach to flight data analysis would be a program that includes not only systematic download and analysis of electronically recorded aircraft flight data (as described above), but also acquisition, correlation and analysis of flight information derived from other sources (as described below).

Further guidance may be found in the ICAO Safety Management Manual (Doc 9859).

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If an operator does not have a process for the regular download and analysis of recorded flight data, then as an alternative the operator may have a systematic process for acquiring and correlating flight information from other sources that can be analyzed to identify hazards or potential hazards to flight.

Useful information can be derived from external sources to supplement flight data derived internally. Other such sources include:

- Regulatory authorities;
- Investigative bodies;
- Safety organizations;
- Manufacturers;
- Other operators.

Flight information is analyzed collectively to identify hazards, system weaknesses, process breakdowns, regulatory violations and other trends or conditions that could potentially lead to accidents or serious incidents. The process includes a method of risk analysis and prioritization to enable the development and implementation of effective corrective or preventive action.

3.4 Quality Assurance Program

ORG 3.4.1 The Operator shall have a quality assurance program that provides for the auditing and evaluation of the management system, and of operations and maintenance functions, to ensure the organization is:

- (i) Complying with applicable regulations and standards of the Operator;
- (ii) Satisfying stated operational needs;
- (iii) Identifying areas requiring improvement;
- (iv) Identifying hazards to operations.
- (v) Assessing the effectiveness of safety risk controls. **[SMS] (GM)**

Auditor Actions

- Identified/Assessed** role/organization/structure of quality assurance program.
- Interviewed** quality assurance program manager.
- Examined** audit program objectives and procedures.
- Examined** examples of management/operational areas identified as requiring improvement.
- Examined** method(s) used for processing hazards identified through quality assurance audits.
- Assessed** implementation of QA audit program in all operational areas.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Quality Assurance](#).

△ The quality assurance program comprises two complementary functions: To monitor an operator's compliance with relevant regulations and standards, as well as to evaluate and continually improve operational safety performance. Such functions are elements of the Safety Assurance component of the SMS framework.

△ In some organizations the quality assurance program may have a different name (e.g. internal audit program, internal evaluation program).

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In certain circumstances, an operator may have the quality assurance audit function performed by an external organization. This typically occurs when the operator is affiliated with one or more other organizations in a Group Company. However, an operator might also choose to simply outsource the quality assurance audit function to a qualified external service provider that is not part of or associated with a Group Company. In both cases, the operator, as the AOC holder, has the ultimate responsibility for ensuring the quality assurance program meets the needs of its organization in accordance with the specifications of this standard. A robust program ensures a scope of auditing that encompasses all areas of the organization that impact operational quality in terms of safety and/or security. Operational functions include flight operations, operational control/flight dispatch, maintenance operations, cabin operations, ground handling and cargo operations.

This provision is designed to permit flexibility in the implementation of the quality assurance program.

The structure and organization of the program within an operator's management system, whether centralized, non-centralized or a combination thereof, is at the discretion of the operator in accordance with its corporate culture and regulatory environment.

An effective audit program includes:

- Audit initiation, including scope and objectives;
- Planning and preparation, including audit plan and checklist development;
- Observation and gathering of evidence to assess documentation and implementation;
- Analysis, findings, actions;
- Reporting and audit summary;
- Follow-up and close out.

To ensure auditors gather sufficient evidence to produce realistic assessments during an audit, the program typically includes guidance that defines the various sampling techniques that are expected to be used by auditors in the evidence collection phase of the audit.

The audit process typically includes a means whereby the auditor and responsible personnel from the audited area have a comprehensive discussion and reach agreement on the findings and corresponding corrective actions. Clear procedures are established to resolve any disagreement between the auditor and audited area.

All action items require follow-up to ensure closeout within an appropriate period of time.

ORG 3.4.2 The Operator shall have a designated manager with appropriate qualifications, authority and independence that is responsible for:

- (i) The performance of the quality assurance program;
- (ii) Ensuring communication and coordination with operational managers in the management of operational risk.
- (iii) Dissemination of information to management and non-management operational personnel as appropriate to ensure an organizational awareness of relevant quality assurance issues and results. **(GM)**

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Auditor Actions

- Identified** quality assurance program manager.
- Examined** job description of quality assurance program manager (background/duties/responsibilities).
- Interviewed** quality assurance program manager.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Quality Assurance Manager](#).

The designated manager (or multiple managers if an operator does not have a centralized program) is appointed to oversee the implementation of the activities and processes associated with the quality assurance program.

The exact title of the manager(s) designated as responsible for the quality assurance program may vary depending on the organization.

Operational managers have direct responsibility for the safety and security of operations, and therefore always have the authority to develop and implement corrective action as necessary to address audit findings in their respective areas of operations.

The manager of the quality assurance program is “operationally independent” in a manner that ensures objectivity is not subject to bias due to conflicting responsibilities.

To be effective, an individual designated as manager of the quality assurance program has appropriate qualifications for the position, which may include:

- Formal training or certification as a quality auditor;
- Relevant operational and auditing experience;
- Formal training in risk management.

Quality assurance audit activities may be centrally controlled or controlled within each relevant operational function as long as independence is maintained.

Typically, the manager of the quality assurance program has direct lines of communication to senior management to ensure the efficient reporting of safety and security issues, and to ensure such issues are appropriately addressed.

- An effective quality assurance program includes the dissemination of appropriate information for the purpose of maintaining an ongoing awareness of quality assurance results that might affect compliance, operational safety or security or identify opportunities for improvement. As an example, such information might include a summary of audit program results such as finding, causation, risk, error trends and opportunities for continuous improvement.
- The method of dissemination is commensurate with the target audience and the size of the organization. Typical means could include periodic briefings or presentations, or the issuance of magazines, newsletters or bulletins in either an electronic or paper form.
- In certain circumstances, an operator may have the quality assurance audit function performed by an external organization (see guidance for [ORG 3.4.1](#)). In such cases, the operator will still ensure its quality assurance program has a manager in accordance with the specifications of this standard.

ORG 3.4.3 The Operator shall have a process for addressing findings that result from audits conducted under the quality assurance program, which ensures:

- (i) Identification of root cause(s);
- (ii) Development of corrective action as appropriate to address findings;
- (iii) Implementation of corrective action in appropriate operational area(s);
- (iv) Evaluation of corrective action to determine effectiveness. **(GM)**



Auditor Actions

- Identified/Assessed** process for addressing quality assurance audit findings.
- Interviewed** quality assurance program manager.
- Examined** selected audit reports (details of root cause analysis, closure of audit findings).
- Examined** selected audit reports/records (details of corrective action implemented, evaluated for effectiveness).
- Assessed** implementation/evaluation of corrective actions in all operational areas.
- Other Actions** (Specify)

Guidance

Certain audit findings might fall under the category of hazards to operations. In such cases, the hazard would be subject to the risk assessment and mitigation process in the development of corrective action.

Refer to the IAH for information relevant to auditing under the quality assurance program.

ORG 3.4.4–3.4.9 (Intentionally open)

Program Elements

ORG 3.4.10 The Operator shall have an audit planning process and sufficient resources, including auditors as specified in [ORG 3.4.12](#) to ensure audits are:

- (i) Scheduled at intervals to meet regulatory and management system requirements;
- (ii) Completed within a specified time period. **(GM)**

Auditor Actions

- Identified/Assessed** planning process quality assurance auditing of the organization (management/operations).
- Identified/Assessed** resources (human and physical) allocated and available for quality assurance auditing.
- Interviewed** quality assurance program manager.
- Crosschecked** audit plan with selected audit reports to verify adherence to plan.
- Assessed** implementation of the audit plan in all operational areas.
- Other Actions** (Specify)

Guidance

The planning process produces a schedule of all audit modules to be conducted within the planning period (e.g., calendar year) and reflect the status of each audit module, to include the applicable audit interval (e.g., 12, 24, 36 months), the date of the previous audit and the scheduled due date for the next audit.

Refer to IAH for information relevant to planning and resources associated with auditing of the ISARPs.

ORG 3.4.11 (Intentionally open)

△ **ORG 3.4.12** The Operator shall ensure the quality assurance program utilizes auditors that are impartial and functionally independent from the operational activities to be audited. **(GM)**

Auditor Actions

- ⊗ **Identified/Assessed** selection and qualification criteria for quality assurance program auditors.
- ⊗ **Interviewed** quality assurance program manager.
- ⊗ **Crosschecked** selected audit reports to confirm auditors qualified for and independent from activities audited.
- ⊗ **Interviewed** quality assurance auditor(s) to verify individual qualifications and functional independence
- △ **Other Actions**

Guidance

△ A quality assurance program is independent in a manner that permits the scheduling and conduct of audits as deemed appropriate for the size and scope of operations. Functional independence ensures auditors are not put in a position where their objectivity may be subject to bias due to conflicting responsibilities.

⊗ A code of conduct may be used to enhance the impartiality and independence of auditors. An effective auditor code of ethics would require auditors:

- To act in a strictly trustworthy and unbiased manner in relation to both the organization to which they are employed, contracted or otherwise formally engaged and any other organization involved in an audit performed by them or by personnel under their direct control;
- To disclose to their employer any relationship they may have with the organization to be audited before undertaking any audit function in respect of that organization;
- Not to accept any gift, commission, discount or any other profit from the organization audited, from their representatives, or from any other interested person nor knowingly allow personnel for whom they are responsible to do so;
- Not to disclose the findings, or any part of them, nor to disclose any other information gained in the course of the audit to any third party, unless authorized in writing by both the auditee and the audit organization, if applicable;
- Not to act in any way prejudicial to the reputation or interest of the audit organization; and
- In the event of any alleged breach of this code, to co-operate fully in any formal enquiry procedure.

△ An auditor may be considered functionally independent from the operational activities to be audited when he/she is not responsible for the activity being audited (at the time of the audit). For example, a flight crew member may audit line flight operations from the flight deck jump seat as an independent observer (supernumerary) but may not do so when functioning as part of the operating crew (or functioning as an augmenting crew member).

△ Refer to the IAH for information relevant to auditor qualification and independence.

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3.5 Outsourcing Quality Control

ORG 3.5.1 The Operator shall have processes to ensure a contract or agreement is executed with external service providers that conduct outsourced operations, maintenance or security functions for the Operator. Such contract or agreement shall identify measurable specifications that can be monitored by the Operator to ensure requirements that affect the safety and/or security of operations are being fulfilled by the service provider. **(GM)**

Auditor Actions

- Identified/Assessed** processes for contract/agreement production/execution with external service providers that conduct outsourced operations, maintenance and/or security functions.
- Interviewed** responsible manager(s).
- Examined** selected contracts/agreements to verify measurable specifications.
- Assessed** implementation of external service provider contract/agreement processes in applicable operational areas.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Outsourcing](#) and [Service Level Agreement](#).

An operator would always retain full responsibility for ensuring an outsourced function is performed properly by an external provider, even if such provider is the parent organization or an affiliate of the operator.

△ A contract or agreement is necessary to ensure details of the outsourced functions to be performed by the external service provider are formally documented. The contract or agreement not only sets forth the services the provider is expected to perform, but also describes the application of specific performance indicators or targets (i.e. measurable specifications) that will be monitored (by the operator) in the provider's performance of those services.

As an example, some operators might use performance measures that have been set in accordance with [ORG 3.2.1](#) as the measurable specifications that are applied to outsourced operational functions.

The structure of contracts or agreements will vary with individual operators and, depending on such structure, defined measurable specifications may or may not be contained in any of the contractual documents. When the measurable specifications are not contained in the contract, they may be defined (in technical terms) in a controlled document that is part of the operator's documentation system, and then conveyed to the provider (perhaps periodically) in a manner that ensures understanding.

Note: *For the purpose of this provision, the contract or agreement as specified above may comprise multiple parts, including the basic document that sets forth legal and commercial terms, and, as applicable, other associated documents that state terms or conditions of service (e.g. appendices, addenda, service level agreement).*

△ **ORG 3.5.2** The Operator *shall* have processes to monitor external service providers that conduct outsourced operational functions for the Operator to ensure requirements that affect the safety and/or security of operations are being fulfilled. **(GM)**

Note: *IOSA or ISAGO registration is acceptable as part of the Operator's monitoring process when such registration is included in or combined with a risk assessment of the provider.*

Auditor Actions

△ **Identified/Assessed** processes for monitoring external service providers that conduct outsourced operational functions.

Interviewed responsible manager(s).

△ **Examined** selected records/reports resulting from monitoring of service providers (focus: monitoring process ensures provider is fulfilling applicable safety/security requirements).

△ **Coordinated** to verify implementation of service provider monitoring in applicable operational areas.

Other Actions (Specify)

Guidance

△ An operator has a responsibility to ensure outsourced operational functions are conducted in a manner that meets its own operational safety and security requirements. A monitoring process is necessary to satisfy that responsibility, and such process would be applicable to any external service

provider that conducts outsourced operational functions, including the parent organization or a separate affiliate of the operator.

In some regulatory jurisdictions, there may be a regulatory control process that permits certain organizations to meet rigorous standards and become approved to conduct outsourced operations or maintenance for an operator. Such regulatory control process would be an acceptable means for meeting the specification of this provision if it can be demonstrated by the operator that the regulatory control process:

- Includes ongoing monitoring of the approved service providers;
- Such monitoring is sufficiently robust to ensure the approved service providers fulfill the operational requirements of the operator on a continuing basis.

Achieving and maintaining IOSA, ISSA and/or ISAGO registration is a way for an external service provider to demonstrate fulfillment of requirements that affect the safety and/or security of operations. Thus, an operator's process that requires such service providers to maintain IOSA, ISSA and/or ISAGO registration would be acceptable as a method of monitoring when such registration(s) is/are used in conjunction with a risk assessment of the provider.

To ensure effective monitoring, consideration is given to a range of internal and external methods for use in the oversight of external service providers. Methods might include auditing, systematic review and risk assessment of reported hazards and/or occurrences, monitoring of performance output (KPIs), reporting and governance processes; monitoring and analysis of targeted risk areas, as well as the establishment of an effective two-way communication link with the service provider.

Under certain circumstances, operational functions may be involuntarily removed from an operator and conducted by a governmental or quasi-governmental authority that is not under the control of the operator (e.g., passenger or baggage security screening at some airports). Under such circumstances, the operator would have a process to monitor output of the function being conducted by the authority to ascertain desired results are being achieved.

If an operator is part of a Group Company and has management and/or operational functions performed by an affiliate organization that is part of the same Group Company, an operator may demonstrate monitoring of the external organization by processes that ensure functions performed by the affiliate organization for the operator are:

- Subjected to auditing under the quality assurance program of the affiliate organization;
- Continually satisfying the needs of the operator.

4 Emergency Response

4.1 Emergency Response Plan

ORG 4.1.1 The Operator shall have a corporate emergency response plan (ERP) for the central management and coordination of all activities should it be necessary to respond to a major aircraft accident or other type of adverse event that results in fatalities, serious injuries, considerable damage and/or a significant disruption of operations. **[SMS] (GM)**

Auditor Actions

- Identified/Assessed** corporate emergency response plan (ERP).
- Interviewed** designated ERP manager.
- Crosschecked** to verify implementation of ERP in all operational areas.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Emergency Response Plan \(ERP\)](#).

Emergency response planning is an element of the Safety Policy and Objectives component of the SMS framework.

An emergency (or crisis) response plan is based upon an assessment of risk appropriate to the size and type of operations, and includes consideration of a major aircraft accident and other potential aircraft and/or non-aircraft events that would require a full corporate emergency response.

In some states, emergency or crisis response is assumed by a governmental authority rather than by the operator. In such case, an emergency response plan focuses on and addresses interaction with and/or participation in the governmental response to an emergency or crisis.

- As a best practice, an operator might consider defining in its ERP an appropriately coordinated response to a public health emergency.

An effective ERP includes industry best practices and ensure community expectations are addressed. Additionally, an ERP:

- Specifies general conditions for implementation;
- Provides a framework for an orderly implementation;
- Ensures proper coordination with external entities at all potential locations as specified in [ORG 4.1.4](#);
- Addresses all potential aspects of an event, including casualties;
- Ensures regulatory requirements associated with specific events are satisfied;
- Provides a scenario for the transition back to normal operations;
- Ensures regular practice exercises as a means to achieve continual improvement.

- IATA provides a guide for use by operators in addressing a public health emergency. Such document, titled Emergency Response Plan and Action Checklist, may be found at <http://www.iata.org/whatwedo/safety/health/Pages/diseases.aspx>.

ORG 4.1.2–4.1.3 (Intentionally open)

ORG 4.1.4 The Operator *should* ensure the ERP as specified in [ORG 4.1.1](#) includes provisions for the appropriate coordination with the emergency response plans of other applicable organizations relevant to the particular event or crisis. **[SMS] (GM)**

- Note:** Effective 1 November 2023, this recommended practice will be upgraded to a standard.

Auditor Actions

- Identified/Assessed** ERP process for normal-emergency and emergency-normal transitions.
- Identified/Assessed** ERP process for ensuring coordination with relevant external organizations.
- Interviewed** designated corporate ERP manager.
- Other Actions** (Specify)

Guidance

ERP transition and reporting is an element of the Safety Policy and Objectives component of the SMS framework.

- An ERP typically defines:

- Coordination procedures for action by key personnel;
- External entities that will interact with the organization during emergency situations;
- ERPs of external entities that will require coordination;
- Method(s) of establishing coordination with external ERPs.

Expanded guidance may be found in the ICAO SMM, Document 9859.

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Table 1.1–Documentation System Specifications

△ **ORG 2.1.1** The Operator shall have a system for the management and control of documentation and/or data used directly in the conduct or support of operations. Such system shall comprise the elements specified below. **Note: Refer to the IRM for the definition of Documentation and Electronic Documentation and Paper Documentation.**

Elements	Documentation Types		
	Type 1	Type 2	Type 3
(i) Identification of the version and effective date of relevant documents and/or data.	Recommended	Recommended	Required–See Note
(ii) Identification of the title and, if applicable, sub-titles of relevant documents and/or data.	Recommended	Recommended	Required–See Note
(iii) Distribution and/or dissemination that ensures all users are provided relevant documents and/or data on or before the effective date: <ul style="list-style-type: none"> (a) Throughout appropriate areas of the organization; (b) To external service providers that conduct outsourced operational functions. 	Required–See Note	Required–See Note	Required–See Note
(iv) Definition of the specific media type(s) designated for presentation or display of the controlled version of relevant documents and/or data.	Required–See Note	Required–See Note	Required–See Note
(v) Definition of documentation and/or data that is considered to be reproduced and/or obsolete.	Required–See Note	Required–See Note	Required–See Note
(vi) Review and revision to maintain the currency of relevant documents and/or data.	Required–See Note	Required–See Note	Required–See Note
(vii) Retention that ensures access to the content of relevant documents and/or data for a minimum period as defined by the Operator.	Required–See Note	Required–See Note	Required–See Note
(viii) Provision for a scheduled back up by copying and archiving relevant documents and/or data, to include validation of the documents or data being backed up.	Required–See Note	Required–See Note	Required–See Note
(ix) Identification and allocation of documentation access/user and modification rights.	Required–See Note	Required–See Note	Required–See Note
(x) Dissemination and/or accessibility of documentation received from external sources such as regulatory authorities and original equipment manufacturers.	Required–See Note	Required–See Note	Required–See Note

Note: Required for conformity with **ORG 2.1.1**.

Section 2 — Flight Operations (FLT)

Applicability

Section 2 addresses safety and security requirements for flight operations of eligible operators. To be eligible, an Operator must meet the following criteria:

- Commercial passenger and/or cargo operations;
- Aircraft with one or more turbine powered and/or multiple reciprocating engines;
- One- or two-pilot operations;
- IFR and/or VFR operations;
- Aircraft below 5,700 Kg MTOW.

Note: Aircraft above 5,700 Kg MTOW will be eligible only ISSA initial assessment; thereafter, the operator needs to pursue an IOSA registration or aircraft above 5700 kg MTOW will be assessed as out of scope during next renewal assessment.

The standards and recommended practices in Section 2 are applicable only to those aircraft that are of the type authorized in the Air Operator Certificate (AOC) or equivalent document, and are utilized in commercial passenger and/or cargo operations unless applicability is extended to encompass non-commercial operations as stated in a note immediately under the body of the provision.

Individual provisions or sub-specifications within a provision that:

- Begin with a conditional phrase (“If the Operator...”) are applicable if the operator meets the condition(s) stated in the phrase.

Do not begin with a conditional phrase are applicable unless determined otherwise by the Auditor. Where an operator outsources flight operations functions to external service providers, an operator retains responsibility for the conduct of such functions and must demonstrate processes for monitoring applicable external service providers in accordance with [ORG 3.5.2](#) located in Section 1 of this manual.

General Guidance

- △ The definitions of technical terms used in this ISSM [Section 2](#), as well as the list of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

1 Management and Control

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1.1–1.6 (Intentionally Open)

1.7 Operations Manual

FLT 1.7.1 The Operator shall have an Operations Manual (OM) for the use of personnel in the flight operations organization, which may be issued in separate parts, and which contains or references the policies, procedures, checklists and other guidance or information necessary for compliance with applicable regulations, laws, rules and Operator standards. As a minimum, the OM shall be managed and controlled in accordance with [ORG 2.1.1](#) and be in accordance with specifications contained in [Table 2.2. \(GM\)](#)

Auditor Actions

- Identified/Assessed** operational documents that comprise the OM.
- Identified** external documents referenced in the OM that contain operational information used by flight crew.
- Interviewed** responsible manager(s) in flight operations.

- Examined** selected parts of OM (focus: contents in accordance with [Table 2.2](#)).
- Other Actions** (Specify)

Guidance

The intent of this provision is to ensure the flight crew will find all information necessary to perform its functions within the OM, or within another document that is referenced in the OM. The OM is identified as a source of operational information approved or accepted for the purpose by the operator or the State.

Guidance and procedures in the OM enable the flight crew to comply with the conditions and limitations specified in the AOC.

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2 Training and Qualification

2.1 Training and Evaluation Program

General

FLT 2.1.1 The Operator shall have a training and evaluation program, approved or accepted by the Authority, that consists of ground and flight training and, when applicable, evaluations to ensure flight crew members are competent to perform assigned duties. The program shall address traditional and, if applicable, advanced (or alternative) training and qualification, and ensure training and evaluation is conducted for each type of aircraft in the fleet. Such program shall also, as a minimum, address:

- (i) Initial qualification;
- (ii) Continuing qualification;
- (iii) Re-qualification;
- (iv) As applicable, aircraft transition or conversion;
- (v) Upgrade to PIC;
- (vi) As applicable, other specialized training requirements, including those associated with operations authorized the AOC. **(GM)**

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Auditor Actions

- Identified/Assessed** flight crew training/qualification program (focus: program includes each type of aircraft in the fleet).
- Interviewed** responsible manager(s) in flight operations.
- Examined** training/qualification course curriculum for selected aircraft types (focus: inclusion of applicable training/qualification courses for each aircraft type).
- Examined** training/qualification records of selected flight crew members (focus: completion of applicable training/qualification courses).
- Other Actions** (Specify)

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Guidance

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The intent of this provision is to ensure an operator's training program contains the elements necessary to ensure flight crew members are continuously competent to perform assigned duties.

The initial qualification process provided to newly hired crew members includes company indoctrination and initial endorsement on company aircraft types. This presupposes that the newly hired crew member already holds a commercial flying license.

Initial endorsement training may not be required as part of initial qualification if a newly hired crew member already holds a type endorsement acceptable to both the State and the operator. Company indoctrination training, however, is always considered a part of initial qualification.

Continuing qualification includes recurrent or refresher training and also includes any training necessary to meet recency-of-experience requirements.

Transition (conversion) training refers to an aircraft type qualification training and evaluation program for each type of aircraft in the fleet and is not required when an operator only utilizes one type of aircraft.

Specialized training could include training on a specific type of new equipment (e.g., ACAS) or training for specific operations to meet requirements of the Authority.

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Training could be outsourced, in which case services typically range from simple dry lease of a training device to delegation of all training to an external organization (e.g., Authorized Flight Training School).

FLT 2.1.2–2.1.9 (Intentionally open)

Training Manual

△ **FLT 2.1.10** The Operator shall have a Training Manual for the use of flight operations personnel, which may be issued in separate parts, that contains the details of all relevant training programs, policies, procedures, requirements and other guidance or information necessary to administer the Operator's Training Program and the Training Manual shall, as a minimum, be managed and controlled as specified in [ORG 2.1.1](#) and be in accordance with specifications contained in [Table 2.2. \(GM\)](#)

Auditor Actions

- △ **Identified/Assessed** flight crew training manual, regulatory approval, content in accordance with [Table 2.2.](#)
- △ **Interviewed** the responsible manager(s) in flight operations.
- △ **Examined** selected parts of training manual (focus: content includes policies/procedures/requirements, other guidance/information necessary to administer the training/evaluation program).
- ⊗
- △ **Other Actions** (Specify)

Guidance

△ The training manual typically applies to instructors, evaluators, line – check airmen, flight crew members, training schedulers, simulator operations personnel, administrative support personnel and other applicable flight operations personnel.

The training manual may be split among several publications with the relevant parts made easily accessible to the appropriate personnel.

FLT 2.1.11–2.1.44 (Intentionally open)

2.2 Training Elements

FLT 2.2.1–2.2.11 (Intentionally open)

- △ **FLT 2.2.12** If the Operator transports dangerous goods as cargo, the Operator shall ensure flight crew members complete training and an evaluation in dangerous goods during initial ground training and subsequently once during recurrent training within the 24-month period from the previous training in dangerous goods.

Auditor Actions

- Identified/Assessed** requirement for training/evaluation in dangerous goods in flight crew training/evaluation program.
- Interviewed** responsible manager(s) in flight operations.
- Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: dangerous goods training/evaluation; definition of specific aspects/subjects addressed).
- Examined** selected flight crew member training/qualification records (focus: completion of training/evaluation in dangerous goods in initial/recurrent training).
- Other Actions** (Specify)

Guidance

Training and evaluation is applicable to all flight crew members.

Recurrent training in dangerous goods is typically completed within a validity period that expires 24 months from the previous training to ensure knowledge is current, unless a shorter period is defined by a competent authority. However, when such recurrent training is completed within the final 3 months of the 24-month validity period, the new validity period may extend from the month on which the recurrent training was completed until 24 months from the expiry month of the current validity period. If such recurrent training is completed *prior* to the final three months (or 90 days) of the validity period, the new validity period would extend 24 months from the month the recurrent training was completed.

- The curriculum for dangerous goods training for flight crew members will typically address the following subject areas:

- General philosophy;
- Limitations;
- List of dangerous goods;
- Labeling and marking;
- Recognition of undeclared dangerous goods;
- Storage and loading procedures;
- Pilot's notification;
- Provisions for passengers and crew;
- Emergency procedures.

- Guidance may be found in the IATA Dangerous Goods Regulations (DGR) 1.5, Table 1.5.A.

- △ **FLT 2.2.13** If the Operator does not transport dangerous goods as cargo, the Operator shall ensure flight crew members complete training and an evaluation in dangerous goods during initial ground training and subsequently once during recurrent training within the 24-month period from the previous training in dangerous goods.

Auditor Actions

- △ **Identified/Assessed** requirement for training/evaluation in dangerous goods in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: dangerous goods training/evaluation; definition of aspects/subjects addressed).

- Examined** selected flight crew member training/qualification records (focus: completion of training/evaluation in dangerous goods in initial/recurrent training).
- Other Actions** (Specify)

Guidance

Training and evaluation is applicable to all flight crew members.

Recurrent training in dangerous goods is typically completed within a validity period that expires 24 months from the previous training to ensure knowledge is current, unless a shorter period is defined by a competent authority. However, when such recurrent training is completed within the final 3 months of the 24-month validity period, the new validity period may extend from the month on which the recurrent training was completed until 24 months from the expiry month of the current validity period. If such recurrent training is completed *prior* to the final three months (or 90 days) of the validity period, the new validity period would extend 24 months from the month the recurrent training was completed.

- The curriculum for dangerous goods training for flight crew members is commensurate with responsibilities and will typically address:
 - General philosophy;
 - Limitations;
 - Labeling and marking;
 - Recognition of undeclared dangerous goods;
 - Provisions for passengers and crew;
 - Emergency procedures.

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Guidance may be found in DGR 1.5, Table 1.5.B.

FLT 2.2.14–2.2.15 (Intentionally open)

- △ **FLT 2.2.16** The Operator shall ensure flight crew members complete training and an evaluation in subjects associated with adverse weather and/or environmental conditions during initial ground training and subsequently during recurrent training once every three (3) calendar years.
 - (i) Cold weather operations;
 - (ii) De-/anti-icing policies and procedures;
 - (iii) Contaminated runway Operations;
 - (iv) Thunderstorm avoidance. **(GM)**

- Note:** *Item ii) is applicable if the Operator conducts flights from any airport when conditions are conducive to ground aircraft icing.*

Auditor Actions

- △ **Identified/Assessed** requirement for training/evaluation in adverse weather/environmental conditions in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: training/evaluation in adverse weather/environmental conditions; definition of aspects/subjects addressed).
- △ **Examined** selected flight crew member training/qualification records (focus: completion of training/evaluation in adverse weather/environmental conditions in initial/recurrent training).
- △ **Other Actions** (Specify)

Guidance

Training and evaluation is applicable to all flight crew members.

The intent of this provision is to ensure flight crew members receive recurrent training and an evaluation in the subjects associated with the adverse weather or environmental conditions they may encounter in operations.

FLT 2.2.17–2.2.25 (Intentionally open)

△ **FLT 2.2.26** The Operator shall ensure flight crew members complete training in normal and non-normal procedures and maneuvers during initial training and subsequently during recurrent training once every 12 months.

⊗

- (i) If applicable, positive transfer of aircraft control;
- (ii) Consistent checklist philosophy;
- (iii) Emphasis on a prioritization of tasks (e.g. “aviate, navigate, communicate”);
- (iv) Proper use of all levels of flight automation. **(GM)**

Auditor Actions

- △ **Identified/Assessed** requirement for training in normal/non-normal procedures/maneuvers in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- **Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: training in normal/non-normal procedures/maneuvers; definition of specific elements/subjects addressed).
- △ **Examined** selected flight crew member training/qualification records (focus: completion of initial/recurrent training in the specified normal/non-normal procedures/maneuvers).
- **Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Pilot Flying \(PF\)](#) and [Pilot Monitoring \(PM\)](#).

Training is applicable to all flight crew members.

The intent of this provision is to set a training interval for normal and non-normal procedures, and additionally to ensure the training manual, curricula, lesson plans, or other guidance associated with such training addresses the specifications in items (i) through (v).

- Division of flight crew duties, transfer of aircraft control, checklist use and prioritization of tasks are in accordance with the operator's policy for task sharing and as specified in [FLT 3.11.18](#).

Elements of training may be accomplished as part of ground, simulator, aircraft or line training.

The term *Pilot Monitoring (PM)* has the same meaning as the term *Pilot Not Flying (PNF)* for the purpose of applying the specifications of this provision to two-pilot operations.

The specification in item iv) refers to the following prioritization of tasks during any normal or abnormal situation or maneuver:

- Aviate: fly the aircraft in accordance with restrictions and limitations set forth in the OM;
- Navigate: guide the aircraft along the intended or appropriate route;
- Communicate: verbalize intentions to other crew members and ATC, as applicable.

- The term “abnormal” is used to describe a condition or situation (e.g. abnormal airframe vibration, abnormal landing configuration).

- The terms “normal” and “non-normal/emergency” typically refer to AOM checklists, procedures and/or maneuvers. The term “non-normal” includes AOM emergency checklists and/or procedures (i.e. an emergency procedure is a subset of non-normal).

The terms can also be used to describe an event, situation or operation that would be addressed by normal or non-normal/emergency procedures or checklists. When used in this manner, the terms may be separated by forward slash marks (e.g. normal/non-normal/emergency).

The term “emergency” used alone refers to declarations and non-AOM procedures.

FLT 2.2.27 The Operator shall ensure flight crew members complete training and, when applicable, an evaluation, that includes a demonstration of competence in normal and non-normal procedures and maneuvers, to include, as a minimum, rejected takeoff, emergency evacuation, engine failure. Such training and, when applicable, evaluation shall be accomplished during initial training and subsequently during recurrent training once every 12 months. **(GM)**

Auditor Actions

Identified/Assessed requirement for training/evaluation including a demonstration of competence in normal/non-normal procedures/maneuvers in flight crew training/evaluation program.

Interviewed responsible manager(s) in flight operations.

Examined selected initial/recurrent training/qualification course curricula/syllabi (focus: training/evaluation in specified normal/non-normal procedures/maneuvers).

Examined selected flight crew member training/qualification records (focus: completion of initial/recurrent training/evaluation in the specified normal/non-normal procedures/maneuvers).

Other Actions (Specify)

Guidance

The intent of this provision is to define the basic initial and subsequent recurrent training and evaluation cycles that ensure flight crew members are competent to perform normal and non-normal procedures and maneuvers. It is understood that competence in all potential normal and non-normal procedures may not be demonstrated annually but in accordance with a schedule that is acceptable to the Authority.

Training and, when applicable, a demonstration of competence in specified normal and non-normal procedures and maneuvers is applicable to all *pilot* crew members.

Training and, when applicable, evaluation is to be accomplished as part of ground, simulator/aircraft and line training.

Line training is in normal procedures/maneuvers only.

Such evaluation of competence in the normal and non-normal procedures and maneuvers specified is applicable when such procedures and/or maneuvers are stipulated by the operator and/or State in conjunction with State-approved or State-accepted training courses that require a method of evaluation. Such courses typically include:

- Type qualification;
- Transition (conversion);
- Upgrade to PIC;
- Re-qualification;
- Recurrent training.

Operators that conduct training flights and cannot safely train/evaluate a non-normal procedure or maneuver in an aircraft or in a representative flight training device may demonstrate an alternative means of conformance.

FLT 2.2.28–2.2.29 (Intentionally open)

FLT 2.2.30 The Operator shall ensure flight crew members complete training in CRM skills, which may be accomplished as part of simulator, aircraft and/or line training, as applicable. Such training shall be completed during initial training and subsequently during recurrent training once every 12 months. **(GM)**

Auditor Actions

- △ **Identified/Assessed** requirements for training in CRM skills in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- **Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: inclusion of CRM training in simulator/aircraft or during line flight training).
- △ **Examined** selected flight crew member training/qualification records (focus: completion of initial/recurrent CRM training).
- ⊗
- △ **Other Actions** (Specify)

Guidance

Training is applicable to all flight crew members.

This specification is intended to ensure CRM skills are emphasized during and integrated into simulator or aircraft training, as applicable, and line training.

FLT 2.2.31 (Intentionally open)

- △ **FLT 2.2.32** The Operator shall ensure flight crew members complete training and, when applicable, an evaluation that includes a demonstration of competence, in wind shear avoidance and recovery from predictive and actual wind shear. Such training shall be completed during initial ground and simulator training, and subsequently during recurrent simulator training once every 36 months.
(GM)

Auditor Actions

- △ **Identified/Assessed** requirement for training/evaluation/demonstration of competence in wind shear avoidance/recovery from predictive/actual wind shear in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- **Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: wind shear training/evaluation/demonstration of competence).
- △ **Examined** selected flight crew member training/qualification records (focus: completion of initial/recurrent wind shear training/evaluation).
- △ **Other Actions** (Specify)

Guidance

- △ Refer to the IRM for the definition of [Wind Shear](#).

- The intent of this provision is to ensure training and evaluation occurs, as applicable, in the maneuvers specified within the intervals specified. Such training and evaluation can occur in conjunction with any State-approved or State-accepted training course.

⊗

Training and, when applicable, an evaluation in the specified normal and non-normal procedures and maneuvers is applicable to all *pilot* crew members.

Training is accomplished in a representative flight simulator approved for the purpose by the State.

Such evaluation of competence in the normal and non-normal procedures and maneuvers specified is applicable when such procedures and/or maneuvers are stipulated by the operator and/or State in conjunction with State-approved or State-accepted training courses that require a method of evaluation. Such courses typically include:

- △
 - Type qualification;
 - Transition (conversion);
 - Upgrade to PIC;

- Re-qualification;
- Recurrent training.

Operators that cannot conform to the specifications of this provision due to the non-existence of a representative flight training device may demonstrate an alternative means of conforming to these specifications.

The additional ground and line training and evaluation used to satisfy the specifications of this provision typically include a review of:

- Conditions conducive to wind shear;
- Effects on aircraft performance;
- Indications of wind shear presence;
- Avoidance and recovery techniques;
- Wind shear case studies or scenarios.

△ **FLT 2.2.33** If the Operator utilize the aircraft which is GPWS installed on board, the Operator shall ensure flight crew members complete training and an evaluation, which includes a demonstration of competence in terrain awareness procedures and maneuvers. Such training shall be completed during initial ground and simulator training and subsequently during recurrent simulator training once every 36 months. Such training and evaluation shall include:

- (i) Knowledge and conduct of associated procedures;
- (ii) Response to GPWS alerts and warnings;
- (iii) The avoidance of Controlled Flight Into Terrain (CFIT). **(GM)**

Auditor Actions

- △ **Identified/Assessed** requirement for training/evaluation/demonstration of competence in terrain awareness procedures/maneuvers in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- **Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: training/evaluation in terrain awareness procedures/maneuvers; definition of subjects addressed).
- △ **Examined** selected flight crew member training/qualification records (focus: completion of initial/recurrent training/evaluation in terrain awareness procedures/maneuvers).
- △ **Other Actions** (Specify)

Guidance

△ The intent of this provision is to ensure training and evaluation occurs, as applicable, in the maneuvers specified within the intervals specified. Such training and evaluation can occur in conjunction with any State-approved or State-accepted training course.

Training and evaluation in the specified normal and non-normal procedures and maneuvers in a representative flight simulator approved for the purpose by the State is applicable to *pilot* crew members.

Training and evaluation of the non-normal procedures and maneuvers specified in this provision cannot be safely accomplished in an aircraft on a training flight.

△ Operators that cannot conform to the specifications of this provision due to the non-existence of a representative flight simulator may demonstrate an alternative means of conforming to these specifications.

The additional ground and line training and evaluation used to satisfy the specifications of this provision typically includes a review of:

- CFIT avoidance techniques;
- CFIT recovery techniques and maximizing aircraft performance;
- GPWS alerts and warnings;
- CFIT case studies or scenarios.

△ **FLT 2.2.34** If the Operator conducts low visibility operations (LVO), the Operator shall ensure flight crew members complete training and an evaluation that includes a demonstration of competence in such operations, as well as operations with inoperative ground based and/or aircraft equipment. Such training shall be completed during initial ground and simulator training and subsequently during recurrent simulator training once every 12 months. **(GM)**

Auditor Actions

- △ **Identified/Assessed** requirement for training/evaluation/demonstration of competence in LVO and/or operations with inoperative ground based/aircraft equipment in flight crew training/evaluation program.
- △ **Interviewed** responsible manager(s) in flight operations.
- △ **Examined** selected initial/recurrent training/qualification course curricula/syllabi (focus: training/evaluation in LVO and/or operations with inoperative ground based/aircraft equipment).
- △ **Examined** selected flight crew member training/qualification records (focus: completion of initial/recurrent training/evaluation in LVO and/or operations with inoperative ground based/aircraft equipment).
- △ **Other Actions** (Specify)

Guidance

- △ Refer to the IRM for the definitions of Low Visibility Operations (LVO).
- △ Training and evaluation in low visibility operations is applicable to *all* pilot crew members.
- △ For the purposes of this provision, low visibility operations are considered in effect when the Runway Visual Range (RVR) is below 400 m for takeoff and/or below Category I limits for landing.
- △ Operators that conduct training flights and cannot safely train/evaluate the specified procedures in an aircraft or in a representative flight training device may demonstrate an alternative means of conformance.

⊗

2.3 Line Qualification

FLT 2.3.1 The Operator shall have a line qualification program consisting of line training and, where applicable, evaluations, approved or accepted by the State, which ensures flight crew members are qualified to operate in areas, on routes or route segments and into the airports to be used in operations for the Operator. Such program shall:

- (i) Be published in the Training Manual or equivalent documents;
- (ii) Ensure each pilot flight crew member has adequate knowledge of the elements specified in [Table 2.5](#), as applicable to the areas, routes and route segments of intended operation;
- (iii) Specify qualification requirements for operations in all areas, on all routes or route segments, and into all airports of intended use;
- △ (iv) Ensure line training and evaluation for each pilot crew member is completed during initial qualification.
- (v) Ensure line training and evaluation is completed prior to a pilot crew member being used as a PIC in operations. **(GM)**

Auditor Actions

- △ **Identified/Assessed** flight crew line qualification training/evaluation program, approved/accepted by the State, specifies qualification requirements for operations associated with areas/routes/route segments/airports used in operations.
- △ **Interviewed** responsible manager(s) in flight operations.
- △ **Examined** flight crew line qualification initial/recurrent curricula/syllabi (focus: line training/evaluation in areas/airports of operations; program elements consistent with specifications in [Table 2.5](#)).

- △ **Examined** selected flight crew member training/qualification records (focus: completion of initial/recurrent line qualification training/evaluation).

- △ **Other Actions** (Specify)

Guidance

- △ The intent of this provision is to ensure flight crew members are qualified to conduct routine operations within each theater of operation as defined by the operator. It does not address the additional and specialized knowledge.

- ⊗ This specification in item v) applies to all candidates for the position of PIC, to include SIC upgrade candidates and pilots hired directly into PIC positions in operations for the operator.

The training and evaluation specified in this provision is accomplished by pilot flight crew members as part of; ground training, simulator/aircraft training or line training.

3 Line Operations

3.1 (Intentionally Open)

3.2 (Intentionally Open)

3.3 Flight Crew Qualifications

FLT 3.3.1–3.3.3 (Intentionally open)

FLT 3.3.4 The Operator shall ensure flight crew members will not operate an aircraft unless issued a medical assessment in accordance with requirements of the State; such assessment shall not be valid for a period greater than 12 months. **(GM)**

Auditor Actions

- △ **Identified/Assessed** requirement for flight crew members to have valid medical assessment in accordance with requirements of the State, maximum 12 months validity.
- △ **Identified/Assessed** tracking/scheduling processes that prevent flight crew members from assignment to flight duty without valid medical assessment.
- **Interviewed** responsible manager(s) in flight operations.
- △ **Examined** selected flight crew training/qualification records (focus: existence of valid medical assessment).
- △ **Other Actions** (Specify)

Guidance

Requirements of the State and/or an applicable authority that are associated with medical classifications, aircraft types, flight crew positions and/or licensing could require a more restrictive assessment interval than specified in this provision. An applicable authority is one that has jurisdiction over international operations conducted by an operator over the high seas or the territory of a state that is other than the State of the Operator.

3.4 Flight Crew Scheduling

FLT 3.4.1–3.4.2 (Intentionally open)

- **FLT 3.4.3** The Operator shall have a methodology for the purpose of managing fatigue-related safety risks to ensure fatigue occurring in one flight, successive flights or accumulated over a period of time does not impair a flight crew member's alertness and ability to safely operate an aircraft or perform safety-related duties. Such methodology shall consist of flight time, flight duty period, duty period and rest period limitations that are in accordance with the applicable prescriptive fatigue management regulations of the State, and/or

Auditor Actions

- Identified/Assessed** requirements/methodology for flight crew fatigue management.
- Identified/Assessed** tracking/scheduling processes (focus: processes take into account flight time/flight duty period/duty period/rest period limitations in the duty assignment of flight crew members).
- Interviewed** responsible manager(s) in flight operations.
- Interviewed** selected scheduling personnel.
- Examined** selected flight crew duty assignment records (focus: examples of application of flight crew fatigue management limitations/mitigations).
- Other Actions** (Specify)

Guidance

The intent of this provision is to ensure an operator establishes a methodology for the management of crew member fatigue in a manner that:

- Is based upon scientific principles and knowledge;
- Is consistent with the prescriptive fatigue management;
- Precludes fatigue from endangering safety of the flight.

3.5–3.8 (Intentionally Open)

3.9 Ground Handling

FLT 3.9.1–3.9.5 (Intentionally open)



FLT 3.9.6 If the Operator conducts flights from any airport when conditions are conducive to ground aircraft icing, the Operator shall have de-/anti-icing policies and procedures published in the OM or in other documents that are available to the flight crew during flight preparation and accessible to the flight crew during flight. Such policies and procedures shall address any flight crew duties and responsibilities related to de-/anti-icing and include:

- (i) Holdover Time tables;
- (ii) A requirement for a member of the flight crew or qualified ground personnel to perform a visual check of the wings before takeoff, if any contamination is suspected;
- (iii) A requirement that takeoff will not commence unless the critical surfaces are clear of any deposits that might adversely affect the performance and/or controllability of the aircraft;
- (iv) A statement that delegates authority to the PIC to order De-/Anti-icing whenever deemed necessary. **(GM)**

Note: The specifications of this provision are applicable to commercial and/or non-commercial operations.

Auditor Actions



Identified/Assessed OM policy/procedures for aircraft de-/anti-icing of aircraft (focus: availability/accessibility to flight crew prior to/during flight; description of flight crew authority/duties/responsibilities; statement that requires critical surfaces to be clear of ice prior to takeoff).



Interviewed responsible manager(s) in flight operations.



Other Actions (Specify)

Guidance

Refer to the IRM for the definitions of [De-/Anti-icing Program](#) and [Holdover Time](#).

The intent of this provision is to ensure flight crew members adhere to the clean aircraft concept prior to takeoff anytime there is a potential for the accretion of ice on aircraft critical surfaces during ground operations.

- △ Refer to Guidance associated with [GRH 4.2.1](#) located in ISM Section 6 for specifications and associated guidance related to the establishment and maintenance of a De-/Anti-icing Program. Qualified ground personnel specified in item (ii) are typically used to perform a visual wing check in instances when the wings are not visible to the flight crew from the interior of the aircraft (e.g., cargo aircraft operations).
- The surfaces specified in item (iii) include: wings, flight controls, engine inlets, fuselage surfaces in front of engines or other areas defined in the AOM.

3.10 Airspace Rules

FLT 3.10.1 The Operator *should* require all commercial flights to be conducted under an IFR Flight Plan and in accordance with an IFR clearance. **(GM)**

Auditor Actions

- △ **Identified/Assessed** OM requirement for all flights to be conducted under IFR flight plan/in accordance with IFR clearance (focus: flight crew filing of IFR flight plan, acceptance of/adherence to IFR clearance).
- Interviewed** responsible manager(s) in flight operations.
- △ **Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Instrument Flight Rules \(IFR\)](#) and [Visual Flight Rules \(VFR\)](#).

The intent of this provision is for an operator to file an IFR flight plan with the appropriate ATS unit and obtain an IFR clearance in order to ensure its flights are afforded all of the air traffic services applicable to aircraft operating under IFR within controlled airspace. Such services typically include:

- Maintenance of minimum separation standards;
- Traffic advisory information;
- Terrain or obstruction alerting;
- Low altitude alerting;
- Strategic route planning;
- Automatic flight plan closure at airports with functioning control towers.

The specifications of this provision do not preclude an operator from:

- Operating certain portions of a commercial flight under VFR (visual flight rules);
- Where possible, identifying portions of flights to be flown under VFR on the ATS flight plan (in lieu of filing a purely IFR Flight Plan);
- Operating non-commercial flights (e.g. maintenance, repositioning flights) under VFR.

3.11 In-flight Operations

FLT 3.11.1–3.11.17 (Intentionally open)

- FLT 3.11.18** If the Operator conducts two pilot operations, the Operator shall have a task sharing policy and guidance that defines and addresses the division of duties related to the performance and prioritization of flight crew member operational tasks, to include, as a minimum:
- (i) Instructions for the use of checklists prior to, during and after all phases of flight, and in abnormal and emergency situations, to ensure compliance with the procedures contained in the OM and provisions of the aircraft certificate of airworthiness;
 - (ii) PM/PF duties for all phases of flight, to include normal, abnormal and emergency situations;
 - (iii) PM/PF actions during manual and automatic flight;
 - (iv) Flight and cabin crew duties during situations that require coordination, to include, as a minimum, emergency evacuation, medical emergency and incapacitated flight crew member. **(GM)**

Auditor Actions

- **Identified/Assessed** OM policy/requirement/guidance for sharing/prioritization in performance of flight crew operational tasks (focus: guidance that addresses use of checklists; defines PF/PM duties/task sharing; defines flight/cabin crew duties/task sharing).
- **Interviewed** responsible manager(s) in flight operations.
- **Other Action** (Specify)

Guidance

The intent of this provision is to ensure flight crew duties are defined and appropriately divided, and that compliance with all applicable checklists contained in the AOM, MEL and CDL occurs in accordance with the operator's task sharing policy.

Elements of task sharing are described in the following table.

Task sharing is observed during most phases of flight and addresses areas such as:

- Philosophy for the use of checklists;
- Performance calculations;
- Automated flight procedures for flight crew;
- Manual flight procedures for flight crew;
- Flight crew briefings;
- Administrative duties at the appropriate times (such as top of descent and prior to commencing approach).

Task sharing is applicable during emergency situations such as:

- Rejected takeoff;
- Engine failure or fire at V1;
- TCAS/ACAS resolution advisory (RA) if applicable;
- GPWS Alert if applicable;
- Emergency descent.

Task sharing is applicable during emergency situations that require coordination with the cabin crew such as:

- Emergency evacuation;
- Medical emergency;
- Flight crew member incapacitation.

The term Pilot Monitoring (PM) has the same meaning as the term Pilot Not Flying (PNF) for the purpose of applying the specifications of this provision.

The term "abnormal" is used to describe a condition or situation (e.g. abnormal airframe vibration, abnormal landing configuration).

The terms "normal" and "non-normal/emergency" typically refer to AOM checklists, procedures and/or maneuvers. The term "non-normal" includes AOM emergency checklists and/or procedures (i.e. an emergency procedure is a subset of non-normal).

The terms can also be used to describe an event, situation or operation that would be addressed by normal or non-normal/emergency procedures or checklists. When used in this manner, the terms may be separated by forward slash marks (e.g. normal/non-normal/emergency).

The term "emergency" used alone refers to declarations and non-AOM procedures.

FLT 3.11.19–3.11.58 (Intentionally open)

FLT 3.11.59 The Operator shall have a stabilized approach policy with associated guidance, criteria and procedures to ensure the conduct of stabilized approaches. Such policy shall specify:

- (i) A minimum height for stabilization not less than 1000 feet AAL for approaches in IMC or not less than 500 ft. AAL for approaches in IMC as designated by the operator and/or State where a lower stabilization height is operationally required;

- (ii) A minimum height for stabilization not less than 500 feet AAL for approaches in VMC;
- (iii) Aircraft configuration requirements specific to each aircraft type (landing gear, wing flaps, speed brakes);
- (iv) Speed and thrust limitations;
- (v) Vertical speed limitations;
- (vi) Acceptable vertical and lateral displacement from the normal approach path. **(GM)**

Auditor Actions

- △ **Identified/Assessed** OM policy/guidance/procedures for the conduct of a stabilized approach (focus: flight crew procedures/definition of criteria for stabilized approach).
- **Interviewed** responsible manager(s) in flight operations.
- △ **Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Flight Data Analysis \(FDA\) Program](#).

The intent of this provision is for the operator to implement a stabilized approach policy, as well as have guidance, criteria and procedures that ensure the maintenance of the intended lateral and vertical flight path during visual approaches and/or as depicted in published approach procedures without excessive maneuvering. The parameters to be considered at the 1000 ft. AAL and 500 ft. gates as well as in the definition of a stabilized approach are listed in items iii) through vi) of the provision.

The specifications in item (i) permit an operator, in accordance with operational requirements approved or accepted by the Authority, to establish stabilization criteria for heights lower than 1000 ft. AAL, but no lower than 500 ft. AAL (IMC or VMC), for approaches designated by the operator and/or State where:

- Lower minimum approach stabilization heights are authorized for turbo-propeller aircraft operations (e.g., 500 feet AAL on VMC/IMC approaches), **and/or**
- Maneuvering at a lower height AAL is required to meet instrument or other charted approach constraints (e.g. RNAV/RNP approaches, circling approaches and charted visual approaches), **and/or**
- Aircraft are required to comply with ATC speed constraints on final approach, **and/or**
- Deviations from selected approach stabilization criteria at a height lower than 1000 feet AAL, but above 500 feet AAL, are operationally required, and the operator can demonstrate pilot adherence to its stabilized approach policy via a continually monitored, managed and active flight data analysis (FDA) program.

The criteria used to conform to the specifications in item (vi) also typically address the maneuvering that may be required in accordance with a charted visual or instrument approach procedure.

FLT 3.11.60 The Operator shall have a policy that requires the flight crew to execute a missed approach or go-around if the aircraft is not stabilized in accordance with criteria established by the Operator. **(GM)**

Auditor Actions

- △ **Identified/Assessed** OM policy/requirements for execution of a missed approach/go-around when approach not stabilized in accordance with established criteria (focus: flight crew guidance/procedures for execution of a missed approach/go-around).
- **Interviewed** responsible manager(s) in flight operations.
- △ **Other Actions** (Specify)

Guidance

The intent of this provision is for an operator's stabilized approach policy to address the actions to be taken by the flight crew in the event of deviations from the criteria that define a stabilized approach, and to designate the minimum altitude at which a go-around must be accomplished if the aircraft is not stabilized in accordance with the operator's stabilization criteria.

FLT 3.11.61 (Intentionally open)

- △ **FLT 3.11.62** The Operator shall have a policy and procedures to ensure the flight crew will not continue an instrument approach to land at any airport beyond a point at which the limits of the operating minima specified for the approach in use would be infringed. **(GM)**

Auditor Actions

- △ **Identified/Assessed** OM policy/procedures that address continuation of an instrument approach to landing beyond limits of specified operating minima (focus: flight crew requirement/procedures for maintaining adherence to operating minima).
- Interviewed** responsible manager(s) in flight operations.
- △ **Other Actions** (Specify)

Guidance

The standard specifies actions required from the flight crew when reaching the limit of the approach, (i.e. when reaching the DA (H) or MDA (H) or equivalent).

4 Operations Engineering Specifications

General Guidance

Refer to the IRM for the definition of [Operations Engineering](#).

4.1–4.2 (Intentionally Open)

4.3 Aircraft Systems and Equipment Specifications

FLT 4.3.1 The Operator shall ensure all turbine engine aircraft in its fleet with a maximum certificated takeoff mass in excess of 5,700 kg (12,566 lb), or authorized to carry more than nine passengers, are equipped with a ground proximity warning system (GPWS) that automatically provides a warning to the flight crew when the aircraft is in close proximity to the earth's surface and there is:

1. Excessive descent rate;
2. Excessive altitude loss after takeoff or go-around;
3. Unsafe terrain clearance. **(GM)**

Guidance

Refer to the IRM for the definition of [Ground Proximity Warning System \(GPWS\)](#).

In addition to the above-specified warnings, it is recommended that the GPWS also provide warnings for the following conditions:

- Excessive terrain closure rate;
- Unsafe terrain clearance when not in the landing configuration:
 - Landing gear is not locked down;
 - Flaps are not in the landing position.
- Excessive descent below the instrument glide path.

FLT 4.3.2 The Operator should ensure all turbine engine aircraft in its fleet with a maximum certificated takeoff mass in excess of 5,700 kg (12,566 lb), or authorized to carry more than nine passengers, are equipped with a ground proximity warning system (GPWS) as specified in [FLT 4.3.1](#) which has a forward – looking terrain avoidance function. **(GM)**

Note: Effective 1 February 2021, this recommended practice will be upgraded to a standard.

Auditor Actions

- Identified/Examined** turbine engine aircraft type specifications/system descriptions related to GPWS.
- Identified/Examined** method(s) used to ensure turbine engine aircraft are equipped with GPWS.
- Other Action** (Specify)

Guidance

Refer to the IRM for the definition of [Ground Proximity Warning System \(GPWS\)](#) and [GPWS with a Forward-Looking Terrain Avoidance \(FLTA\) Function](#).

Different systems are available and acceptable as a GPWS with a forward-looking terrain avoidance (FLTA) function, as specified in this provision. The following guidance is an overview only; it is not to be construed as technical specifications for an acceptable system.

A GPWS with a FLTA function could also be known as a predictive terrain awareness and warning system (TAWS), and provides:

- A forward-looking capability and terrain clearance floor;
- The flight crew, by means of visual and aural signals, and a terrain awareness display, with an alerting time necessary to prevent controlled flight into terrain events.

An acceptable system provides a forward-looking capability and terrain clearance floor protection in areas of operations and surrounding airports of intended use. Such systems generally have:

- A navigation system that provides accurate aircraft position (e.g. GPS or equivalent);
- A means of displaying aircraft and terrain information;
- A means of providing visual and aural signals;
- A terrain database(s) for all areas of potential operations and surrounding airports of intended use;

If an obstacle database is commercially available and obstacle detection/display functionality is installed, an obstacle database for all areas of potential operations.

FLT 4.3.3 The Operator shall ensure all piston engine aircraft in its fleet with a maximum certificated takeoff mass in excess of 5,700 kg (12,566 lb), or authorized to carry more than nine passengers, are equipped with a GPWS that automatically provides a warning to the flight crew when the aircraft is in close proximity to the earth's surface and there is:

- (i) Excessive descent rate;
- (ii) Excessive terrain closure rate;
- (iii) Excessive altitude loss after takeoff or go-around.

Auditor Actions

- Identified/Assessed** piston engine aircraft type specifications/system descriptions related to GPWS.
- Identified/Assessed** method(s) used to ensure piston engine aircraft are equipped with GPWS.
- Other Actions** (Specify)

Auditor Actions

- Identified/Assessed** piston engine aircraft type specifications/system descriptions related to GPWS.
- Identified/Assessed** method(s) used to ensure piston engine aircraft are equipped with GPWS.
- Other Actions** (Specify)

FLT 4.3.4 The Operator *should* ensure aircraft in its fleet with a maximum certificated takeoff mass in excess of 5700 kg, or authorized to carry more than nine passengers, are equipped with a forward-looking windshear warning system. **(GM)**

Auditor Actions

- Identified/Assessed** aircraft type specifications/system descriptions related to forward-looking windshear warning systems.
- Identified/Assessed** method(s) used to ensure aircraft are equipped with a forward-looking windshear warning system.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Forward-Looking Windshear Warning System](#).

FLT 4.3.5–4.3.23 (Intentionally open)

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FLT 4.3.24 The Operator shall ensure all turbine engine aircraft in its fleet with a maximum certificated takeoff mass in excess of 5,700 kg (12,566 lb), or authorized to carry more than nine passengers, are equipped with a ground proximity warning system (GPWS) which has a forward – looking terrain avoidance function.

Auditor Actions

- Identified/Examined** turbine engine aircraft type specifications/system descriptions related to GPWS
- Identified/Examined** method(s) used to ensure turbine engine aircraft are equipped with GPWS.
- Other Action** (Specify)

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Guidance

Refer to the IRM for the definition of [Ground Proximity Warning System \(GPWS\)](#) and [GPWS with a Forward-Looking Terrain Avoidance \(FLTA\) Function](#).

Different systems are available and acceptable as a GPWS with a forward-looking terrain avoidance (FLTA) function, as specified in this provision. The following guidance is an overview only; it is not to be construed as technical specifications for an acceptable system.

A GPWS with a FLTA function could also be known as a predictive terrain awareness and warning system (TAWS), and provides:

- A forward-looking capability and terrain clearance floor;
- The flight crew, by means of visual and aural signals, and a terrain awareness display, with an alerting time necessary to prevent controlled flight into terrain events.

An acceptable system provides a forward-looking capability and terrain clearance floor protection in areas of operations and surrounding airports of intended use. Such systems generally have:

- A navigation system that provides accurate aircraft position (e.g. GPS or equivalent);
- A means of displaying aircraft and terrain information;
- A means of providing visual and aural signals;
- A terrain database(s) for all areas of potential operations and surrounding airports of intended use;

If an obstacle database is commercially available and obstacle detection/display functionality is installed, an obstacle database for all areas of potential operations.

- △ **FLT 4.3.25** The Operator *should* ensure all piston engine aircraft in its fleet with a maximum certificated takeoff mass in excess of 5,700 kg (12,566 lb), or authorized to carry more than nine passengers, are equipped with a GPWS which has a forward-looking terrain avoidance function.

Auditor Actions

- **Identified/Examined** piston engine aircraft type specifications/system descriptions related to GPWS
- **Identified/Examined** method(s) used to ensure piston engine aircraft are equipped with GPWS.
- ⊗
- **Other Action** (Specify)

- **FLT 4.3.26** The Operator *should* ensure all turbine engine aircraft in its fleet with a maximum certificated takeoff mass of 5,700 kg (12,566 lb) or less and authorized to carry more than five passengers are equipped with a GPWS which has a forward-looking terrain avoidance function.

Auditor Actions

- **Identified/Examined** turbine engine aircraft type specifications/system descriptions related to GPWS.
- **Identified/Examined** method(s) used to ensure turbine engine aircraft are equipped with GPWS.
- **Other Action** (Specify)

FLT 4.3.27 The Operator *should* ensure aircraft in its fleet with a maximum certificated takeoff mass in excess of 5700 kg, or authorized to carry more than nine passengers, are equipped with a forward-looking windshear warning system. **(GM)**

Auditor Actions

- **Identified/Examined** aircraft type specifications/system descriptions related to forward-looking windshear warning systems
- **Identified/Examined** method(s) used to ensure aircraft are equipped with a forward-looking windshear warning system.
- ⊗
- **Other Action** (Specify)

Guidance

- ⊗ Refer to the IRM for the definition of [Forward-Looking Windshear Warning System](#)

Table 2.1—(Intentionally Open)

Table 2.2—Operations Manual (OM) Content Specifications		
<p>This table contains the fundamental OM content specifications required to achieve conformance with FLT 1.7.1 and FLT 2.1.10. The table also specifies Section 3 (DSP) provisions that must be addressed in the sections of the OM relevant to flight crew.</p> <p>Note: <i>Specific flight crew policies, guidance, data and/or procedures that must also be addressed in the sections of the OM relevant to flight crew can be found in individual Section 2 provisions and are not duplicated in the table.</i></p>		
General Information		DSP ISARP
(i)	General Operations Manual (GOM), to include:	None
(a)	Non-aircraft type related and/or standard operating procedures for each phase of flight, policies, procedures, checklists, descriptions, guidelines, emergency procedures and other relevant information;	None
(b)	Authorities, duties and responsibilities associated with the operational control of flights;	DSP 1.3.4, 1.3.5
(c)	If applicable, guidance that identifies and defines the common flight documents used by the flight crew, the FOO, FOA and/or other personnel responsible for operational control.	None
Aircraft Operating Information		DSP ISARP
(ii)	Aircraft Operating Manual (AOM), to include:	None
(a)	Normal, abnormal/non-normal and emergency procedures, instructions and checklists;	None
(b)	Aircraft systems descriptions, limitations and performance data.	None
(iii)	Minimum Equipment List (MEL) and Configuration Deviation List (CDL);	None
(iv)	Aircraft specific weight/mass and balance instructions/data (including loadsheets);	None
(v)	Instructions for the computation of the quantities of fuel and oil (if required) to be carried.	DSP 4.3.1
Areas, Routes and Airport Information		
(vi)	Route and airport instructions and information (departure, destination, en route and destination alternates, to include:	
(a)	Airway manuals and charts, including information regarding communication facilities and navigation aids;	
(b)	Airport charts, including the method for determining airport operating minima;	
(c)	FMS database;	
(d)	Airport and runway analysis manual or documents;	
(e)	If applicable, supplemental oxygen requirements;	
(f)	If applicable, escape routes used in the event of a decompression or engine failure in an area of high terrain;	
(g)	If applicable, procedures for loss of communication between the aircraft and the FOO;	
(h)	Instructions for the selection, designation (on the OFP) and protection of departure, en route and destination alternate airports.	
(i)	Instructions to address departure if current meteorological reports and forecasts indicate that the destination airport or destination alternate will not be at or above operating minima;	
(j)	Instructions to address the continuation of a flight towards an airport of intended landing if the latest available information indicates a landing cannot be accomplished at that airport or at least one destination alternate;	
(k)	If applicable, flight monitoring requirements and instructions to ensure the, PIC notifies the operator of en route flight movement or deviations from the OFP;	

Table 2.2—Operations Manual (OM) Content Specifications

- (l) If applicable, flight planning considerations that address the continuation of a flight after the failure of the critical engine on a two-engine aircraft and/or the second engine on a three or four engine aircraft;
- (m) The essential information concerning the search and rescue services in the area over which the aircraft will be flown.
- (n) Information regarding RFFS capability available at airports of intended use.

Training Information

- (vii) Training Manual, to include:
 - (a) Details of all relevant training programs, policies, directives and requirements, including curricula and syllabi, as applicable, for basic operator familiarization, initial qualification, continuing qualification (including recency of experience), re-qualification, aircraft transition or conversion, upgrade to PIC and other specialized training requirements, as applicable;
 - (b) Curricula to include: ground training, simulator training, aircraft training, evaluation and certification, line flying under supervision, and any specialized training;
 - (c) Comprehensive syllabi to include lesson plans, procedures for training and the conduct of evaluations;
 - (d) The training program for the development of knowledge and skills related to human performance (Crew Resource Management/Dispatch Resource Management, CRM/DRM).

Other Information

- (viii) Cabin safety and emergency procedures relevant to the flight crew.
- (ix) Dangerous Goods manual or parts relevant to the flight crew, to include information and instructions on the carriage of dangerous goods and action to be taken in the event of an emergency.
- (x) Security Manual or parts relevant to the flight crew, including bomb search procedures.
- (xi) Ground Handling Manual or parts relevant to the flight crew, if required for flight crew to accomplish assigned duties (recommendation only and only applicable to cargo aircraft operations).

Table 2.3 and Table 2.4—(Intentionally Open)

Table 2.5—Route and Airport Knowledge Requirements

△ Each pilot crew member, in order to conform to the specifications of [FLT 2.3.1](#), shall have adequate knowledge of the following elements related to areas, routes or route segments, and airports to be used in operations:

- (i) Terrain and minimum safe altitudes;
- (ii) Seasonal meteorological conditions;
- (iii) Meteorological, communication and air traffic facilities, services and procedures;
- (iv) Search and rescue services for the areas over which the aircraft will be flown;
- (v) Navigational facilities and procedures, including any long-range navigation procedures associated with the route along which the flight is to take place;
- (vi) Procedures applicable to flight paths over heavily populated areas and areas of high air traffic density;
- (vii) Airport obstructions, physical layout, lighting, approach aids and arrival, departure, holding and instrument approach procedures and applicable operating minima.

Note: That portion of an evaluation relating to arrival, departure, holding and instrument approach procedures may be accomplished in an appropriate training device that is adequate for this purpose.

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Section 3 — Operational Control and Flight Dispatch (DSP)

Applicability

Section 3 addresses the requirements for operational control of flights conducted by single and multi-engine aircraft and is applicable to an operator that conducts such flights, whether operational control functions are conducted by the operator or conducted for the operator by an external organization (outsourced). Specific provisions of this section are applicable to an operator based on the operational system in use, the manner in which authority is delegated by the operator, and the responsibilities, functions, duties or tasks assigned to the personnel involved.

The ISSA standards and recommended practices (ISARPs) in Section 3 are applicable only to those aircraft that are of the type authorized in the Air Operator Certificate (AOC) and utilized in commercial passenger and/or cargo operations, unless applicability is extended to encompass non-commercial operations as stated in a note immediately under the body of the provision.

Table 3.1 categorizes the personnel that are delegated the authority to exercise operational control, assigned the overall responsibility for the overall operational control of a flight, assigned the individual responsibility to carry out one or more functions, duties or tasks related to the operational control of a flight, or assigned the duty to provide administrative support to others with responsibilities related to operational control.

Table 3.5 defines the competencies of operational control personnel appropriate to the assignment of overall responsibility for operational control and/or to carry out one or more operational control functions, duties or tasks according to their specific competencies.

All personnel utilized to perform operational control functions as defined in Table 3.1, or that act in a manner consistent with the functional categories specified in Table 3.1 and the competencies specified in Table 3.5, irrespective of management or post holder title, are subject to specified training and qualification provisions in this section relevant to the operational control function performed.

Individual DSP provisions, and/or individual sub-specifications within a DSP provision, that:

- Do not begin with a conditional phrase are applicable to all operators unless determined otherwise by the Auditor.
- Begin with a conditional phrase (“If the Operator...”) are applicable if the operator meets the condition(s) stated in the phrase. The conditional phrase serves to define or limit the applicability of the provision (e.g. “If the operator utilizes...” or “If an FOO or FOA is utilized...”).
- Begin with a conditional phrase that specifies the use of a Flight Operations Officer (FOO) by an operator are applicable when the operator assigns the FOO, as defined in the IRM and delegated authority in accordance with Table 3.1, responsibility to carry out operational control functions, duties or tasks related to *all* of the competencies of operational control as specified in Table 3.5.
- Begin with a conditional phrase that specifies the use of a Flight Operations Assistant (FOA) by an operator are applicable when the operator assigns the FOA, as defined in the IRM, responsibility to carry out operational control functions, duties or tasks related to one or more, *but not all*, competencies of operational control as specified in Table 3.5.
- Are applicable to all systems of operational control, but with differences in application to each system, will have those differences explained in the associated Guidance Material (**GM**).
- Contain the phrase “personnel responsible for operational control” or “personnel with responsibility for operational control” refer to any suitably qualified personnel with responsibility for operational control as designated by the operator, to include the pilot-in-command (PIC) unless otherwise annotated.

Where operational control functions, duties or tasks are outsourced to external service providers, an operator retains overall responsibility for operational control and will have processes to monitor applicable external service providers in accordance with ORG 3.5.2 located in Section 1 of this manual to ensure requirements that affect operational control are being fulfilled.

General Guidance

Authority and Responsibility

For the purposes of this section *authority* is defined as the delegated power or right to command or direct, to make specific decisions, to grant permission and/or provide approval, or to control or modify a process.

For the purposes of this section *responsibility* is defined as an obligation to perform an assigned function, duty, task or action. An assignment of responsibility typically also requires the delegation of an appropriate level of authority.

Operational Control

Operational control is defined as the exercise of authority to initiate, continue, divert or terminate a flight in the interest of the safety and security of the aircraft and its occupants. An operator may delegate the authority for operational control of a specific flight to qualified individuals, but typically retains overall authority to operate and control the entire operation. An operator may also assign the responsibility to carry out specific operational control functions, duties, or tasks related to the conduct of each flight to identifiable, qualified and knowledgeable individual(s), but always remains responsible (and accountable) for the conduct of the entire operation.

Any individuals delegated the authority to make specific decisions regarding operational control would also be responsible (and accountable) for those decisions. Additionally, individuals assigned the responsibility to carry out specific operational control functions, duties, or tasks related to the conduct of each flight are also responsible (and accountable) for the proper execution of those functions, duties, or tasks. In all cases, the authority and responsibility attributes of operational control personnel are to be clearly defined and documented by the operator, and communicated throughout the organization.

It is important to note that when an operator assigns the responsibility for functions, duties or tasks related to the initiation, continuation, diversion and termination of a flight to employees or external service providers, such operator retains full responsibility (and accountability) for the proper execution of those functions, duties or tasks by ensuring:

- The training and qualification of such personnel meets any regulatory and operator requirements;
- Personnel are performing their duties diligently;
- The provisions of the Operations Manual are being complied with;
- An effective means of oversight is maintained to monitor the actions of such personnel for the purpose of ensuring operator guidance and policy, and regulatory requirements, are complied with.



Authority for the Operational Control of Each Flight

In order to practically exercise operational control of flight operations, an operator typically delegates the authority for the initiation, continuation, diversion or termination of each flight to qualified individuals. Such delegation occurs in conjunction with an operator's overall system of operational control as follows:

- Shared systems, wherein operational control authority is shared between the pilot-in-command (PIC) **and** a flight operations officer/flight dispatcher (FOO) **or** designated member of management, such as the Director of Flight Operations (or other designated post holder);
For example: The FOO (or designated member of management, as applicable) has the authority to divert, delay or terminate a flight if in the judgment of the FOO, a designated member of management or the PIC, the flight cannot operate or continue to operate safely as planned or released.
- Non-shared systems, wherein operational control authority is delegated **only** to the PIC.
For example: Only the PIC has the authority to terminate, delay, or divert a flight if in the judgment of the PIC the flight cannot operate or continue to operate safely as planned.

Responsibility for Operational Control of Each Flight

While an operator always retains full responsibility (and accountability) for the entire operation, the responsibility for the practical operational control of each flight is typically assigned to qualified individuals. As with the delegation of authority, the assignment of responsibility related to the operational control of each flight occurs in conjunction with a system of operational control as follows:

- Shared systems, wherein operational control responsibility for each flight is shared between the PIC and an FOO, or between the PIC and a designated member of management such as the Director of Flight Operations (or other designated post holder). In either shared system, the PIC, FOO or

designated member of management, as applicable, may be assisted by other qualified personnel assigned the individual responsibility (by the operator) to carry out specific operational control functions, duties or tasks. Such personnel, however, typically do not share operational control responsibility with the PIC, FOO or designated member of management, as applicable.

For example: *The FOO (or designated member of management) and the PIC are jointly responsible (and accountable) for the functions, duties or tasks associated with the operational control of a flight, such as pre-flight planning, load planning, weight and balance, delay, dispatch release, diversion, termination, etc. In such systems the FOO (or designated member of management) may carry out such responsibilities unassisted or be assisted by qualified personnel assigned the individual responsibility (by the operator) to carry out specific operational control functions, duties or tasks.*

- Non-shared systems, wherein the PIC is solely responsible for all duties, functions, or tasks regarding operational control of each flight, and may carry out such responsibilities unassisted or be assisted by qualified personnel assigned the individual responsibility (by the operator) to carry out specific operational control functions, duties or tasks.

For example: *The PIC is solely responsible (and accountable) for the duties, functions, duties or tasks associated with the operational control of a flight, and the PIC either acts unassisted or is assisted by qualified personnel in carrying out functions, duties or tasks such as preflight planning, load planning, weight and balance, delay, dispatch release, diversion, termination, etc.*

Responsibility for Individual Operational Control Functions, Duties, or Tasks

- △ It is important to note that, except for purely non- shared (PIC only) system, and as illustrated by the examples in the previous paragraph, the assignment of responsibilities related to the operational control of each flight can be further subdivided among a number of qualified and specialized personnel. In such cases, the responsibility for individual or specific operational control functions, duties or tasks is typically assigned to FOA personnel who support, brief and/or assist the PIC, FOO personnel and/or designated member(s) of management, as applicable, in the safe conduct of each flight. Examples of such qualified personnel include Weather Analysts, Navigation Analysts/Flight Planning Specialists, Load Agents/Planners, Operations Coordinators/Planners, Maintenance controllers and Air Traffic Specialists.

Note 1: *Some operators might choose to assign the responsibility for specialized operational control functions, such as those described in the example, to fully qualified FOO personnel. In such cases, an FOO, although qualified in all competencies of operational control, would be functionally acting as an FOA. Therefore, for the purpose of an audit, FOO personnel acting in this limited capacity are assessed as FOA personnel.*

- **Note 2:** *Load Agents/Planners/Controllers who perform load control functions within the scope of ground handling operations may not be considered FOAs if trained and qualified in accordance with ISM Section 6 (GRH), [Subsection 2.1](#), Training Program.*

Administrative Support Personnel

FOA personnel are not to be confused with administrative personnel that lack any operational control authority, have very limited operational control responsibilities, and who simply provide, collect or assemble operational documents or data on behalf of the PIC, the FOO, designated member of management or the operator.

- △ Administrative personnel may be present in any system of operational control, are excluded from the initial and continuing qualification provisions of this section, and may be qualified as competent through on-the-job training (OJT), meeting criteria as specified in a job description, or through the mandatory use of written instruments such as task cards, guidelines, or checklists.

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- **Additional Note**

For the purposes of this section, continuing qualification includes recurrent or refresher training as well as any training necessary to meet recency-of-experience requirements.

Definitions, Abbreviations, Acronyms

- △ Definitions of technical terms used in this ISSM [Section 3](#), as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

1 Management and Control

1.1–1.2 (Intentionally Open)

1.3 Authorities and Responsibilities

DSP 1.3.1–1.3.3 (Intentionally open)

DSP 1.3.4 The Operator shall delegate the authority for operational control of each flight only to the PIC in a non-shared system of operational control, or to a combination of suitably qualified individuals in a shared system of operational control, to include the PIC and either:

- (i) An FOO in a shared system of operational control that requires the use of FOO personnel, or
- (ii) A designated member of management or Post Holder in a shared system of operational control that requires the use such management personnel. **(GM)**

Auditor Actions

- Identified** specific system for operational control of flights as required by regulations.
- Identified/Assessed** operational control system (focus: specific type of shared/non-shared operational control system in accordance with regulatory requirements).
- Interviewed** responsible operational control manager(s).
- Examined** job description for positions with delegated authority for operational control of flights (focus: authority/responsibilities appropriate for specific type of shared/non-shared system of operational control).
- Other Actions** (Specify)

Guidance

- Refer to the IRM for the definition of [Flight Monitoring](#).
- Refer to General Guidance in the beginning this section for the definition of *Authority* in the context of operational control.
- The intent of this provision is to ensure an operator delegates the authority to initiate, continue, divert or terminate a flight in the interest of the safety and security of the aircraft and its occupants (operational control) only to appropriately qualified individuals.
- Examples of operational control systems are provided in the following table as a means to identify how authority is typically delegated by an operator.

System of Operational Control	Location	System Description
Shared System (General)	(i), (ii)	Operational control authority is shared between the PIC and a flight operations officer/flight dispatcher (FOO) or a designated member of management.
Full Shared System (PIC and FOO)	(i)	The PIC and FOO have joint authority over the decisions functions, duties or tasks associated with the operational control of a flight. Such systems are characterized by the use of flight monitoring and a dedicated communications system (voice or electronic) separate from the ATC system in order to maintain shared authority.

System of Operational Control	Location	System Description
Partial Shared System (PIC and FOO)	(i)	The PIC and FOO have joint authority over all preflight decisions, functions, duties or tasks associated with the operational control of a flight, but during flight the PIC has sole authority. Such systems typically include an agreed point of transition from joint to sole responsibility (e.g. pushback or throttle advance for takeoff). This point of transition also typically coincides with the point when the MEL is no longer applicable and flight crews transition to inflight procedures. Partial Shared systems are characterized by the use of flight monitoring if required by the Authority or desired by the Operator and typically lack the dedicated communications system necessary to maintain shared authority in flight.
Shared System (PIC and Management)	(ii)	Functionally equivalent to a full-shared system except that the PIC and a designated member of management, often the Director of Flight Operations or any suitably qualified and knowledgeable member of management designated by the operator, have joint authority over the decisions, functions, duties or tasks associated with the operational control of a flight.
Non-shared System (General)	Main standard	Operational control authority is delegated only to the PIC who may or may not be assisted by other support personnel.
Non-shared System (PIC-only)	Main standard	The PIC has sole authority over any and all decisions and completes all tasks (unassisted) related to the operational control of each flight. This does not preclude administrative personnel from providing, collecting or assembling operational documents or data related to each flight on behalf of the PIC and as defined in Table 3.1 . Such systems may employ flight monitoring if required by the Authority or desired by the operator.
Non-shared System (PIC-assisted)	Main standard	The PIC has sole authority over any and all decisions regarding operational control. However, the PIC is assisted by others (e.g. FOO, FOA or a member of management) that lack operational control authority, but are assigned the responsibility to carry out specific functions, duties or tasks, such as flight planning, flight support, briefing and in-flight monitoring. Such systems employ flight monitoring if required by the Authority or desired by the operator.
<p>Note: An FOA can be utilized in combination with FOOs or designated members of management in all systems of operational control. If such personnel are delegated authority in a shared system, however, it would be limited to their specific area of competency.</p>		

[Table 3.1](#) categorizes operational control personnel, defines their authority, identifies their responsibilities and illustrates the relationship of such responsibilities to the operation as a whole.

DSP 1.3.5 The Operator shall retain the overall responsibility for operational control of each flight and assign the responsibility to carry out functions, duties or tasks related to the operational control of each flight only to the PIC, or to a combination of suitably qualified personnel as defined in [Table 3.1](#), to include the PIC and:

- (i) If the Operator has a shared system of operational control responsibility, *either* of the following:
 - (a) An FOO, who shares overall operational control responsibility with the PIC and/or supports, briefs and/or assists the PIC in the safe conduct of each flight, *or*
 - (b) A designated member of management or Post Holder who shares overall operational control responsibility with the PIC and/or supports, briefs and/or assists the PIC or FOO in the safe conduct of each flight.

Note: FOA and/or administrative personnel can be utilized in combination with FOOs and/or designated members of management in a shared system of operational control, but neither would share operational control responsibility with the PIC, FOO or designated member of management.

- (ii) If the Operator has a non-shared system of operational control responsibility, one or more of the following:
 - (a) An FOO who supports, briefs and/or assists the PIC in the safe conduct of each flight, *or*
 - (b) A designated member of management or Post Holder who supports, briefs and/or assists the PIC or FOO in the safe conduct of each flight, *or*
 - (c) FOA personnel who support, brief and/or assist the PIC or FOO in the safe conduct of each flight, and/or
 - (d) Administrative personnel who do not support, brief and/or assist the PIC or FOO, but provide, collect or assemble operational documents or data relevant to the conduct of each flight. **(GM)**

Note: An operator may choose to assign limited responsibilities to fully qualified FOO personnel, or to utilize them only to carry out individual or specific operational control functions, duties or tasks. In such cases, an FOO would be functionally acting as an FOA.

Auditor Actions

- △ **Identified/Assessed** operational control system (focus: operator has overall responsibility for operational control; responsibilities for individual functions/duties/tasks assigned to positions as specified in [Table 3.1](#)).
- △ **Interviewed** responsible operational control manager(s).
- ⊗ **Examined** job description for positions with responsibility for individual operational control functions/duties/tasks (focus: position responsibilities appropriate for specific type of shared/non-shared system of operational control).
- △ **Other Actions** (Specify)

Guidance

Refer to General Guidance in the beginning this section for the definition of *Responsibility* in the context of operational control.

The intent of this provision is to specify the various ways operational control responsibilities can be assigned by an operator and to ensure only suitably trained and qualified individuals, in addition to the PIC, are assigned overall responsibility for operational control or the responsibility to carry out one or more functions, duties or tasks related to the operational control of each flight.

The specifications of this provision apply irrespective of post holder titles or whether personnel positions are described in the OM. If personnel are assigned the responsibility to carry out operational control functions, duties or tasks, and act in a manner consistent with the specifications of

this provision or the descriptions found in [Table 3.1](#), the specifications of this provision are applicable, as well as the specifications of ensuing provisions that require such personnel to be trained and qualified for the operational control responsibilities, functions, duties or tasks that they are performing.

Examples of operational control systems are provided in the following table as a means to identify how responsibility is typically assigned by an operator.

System of Operational Control	Item	System Description
Shared Systems (General)	(i) (a), (i) (b)	Operational control responsibility is shared between the PIC and an FOO or designated member of management.
Full Shared System (PIC and FOO)	(i) (a)	The PIC and FOO are jointly responsible for the decisions, functions, duties or tasks associated with the operational control of a flight. Such systems are characterized by flight monitoring and a dedicated communications system (voice or electronic) separate from the ATC system in order to maintain joint responsibility.
Partial Shared System (PIC and FOO)	(i) (a)	The PIC and FOO are jointly responsible for all preflight decisions, functions, duties or tasks associated with the operational control of a flight, but during flight the PIC has sole responsibility. Such systems are characterized by the use of flight monitoring if required by the Authority or desired by the Operator and typically lack the dedicated communications system necessary to maintain shared responsibility in flight.
Shared System (PIC and Management)	(i) (b)	Functionally equivalent to a full-shared system except that the PIC and a designated member of management, often the Director of Flight Operations or any suitably qualified and knowledgeable member of management designated by the operator are jointly responsible for the functions, duties or tasks associated with the operational control of a flight. The responsibility to carry out actual functions, duties or tasks such as flight planning, supporting/briefing the crew or flight monitoring is typically assigned to other non-management personnel (e.g. FOOs and/or FOAs).
Non-shared Systems (General)	(ii) (a) - (d)	Operational control responsibility is assigned only to the PIC who may or may not be assisted by other support personnel.
Non-shared System (PIC-only)	Parent provision and/or (ii) (d)	The PIC is solely responsible for completing all tasks (unassisted) related to the operational control of each flight. This does not preclude administrative personnel from providing, collecting or assembling operational documents or data related to each flight on behalf of the PIC as defined in Table 3.1 . Such systems employ flight monitoring if required by the Authority or desired by the operator.
Non-shared System (PIC-assisted)	(ii) (a) - (c)	The PIC is solely responsible for all decisions regarding operational control. However, the PIC may be assisted by others, such as an FOA, or an FOO or member of management that functions as an FOA, who is assigned the responsibility to carry out specific functions, duties or tasks, such as flight planning, support, briefing and in-flight monitoring. Such systems employ flight monitoring if required by the Authority or desired by the operator.

System of Operational Control	Item	System Description
<p>Note:</p> <ul style="list-style-type: none"> FOOs can be present in shared or non-shared systems of operational control to support, brief and/or assist the PIC or designated member of management in all competencies of operational control. FOAs can be present in any system of operational control except purely non-shared (PIC only) systems, but their responsibilities are limited to their area(s) of expertise. FOAs may be assigned specific flight responsibilities depending on area of expertise or general (non-flight specific) responsibilities in support of other operational control personnel or functions. The responsibilities of administrative personnel utilized in operational control functions are limited to the provision or collection of operational data. 		

Table 3.1 categorizes operational control personnel, defines their authority, identifies their responsibilities and illustrates the relationship of such responsibilities to the operation as a whole.

Table 3.5 defines the competencies of individuals assigned the responsibility for operational control and/or the responsibility to carry out individual operational control functions, duties or tasks.

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FOO and/or FOA responsibilities for operational control typically begin when assigned a flight during flight preparation and end after flight termination.

1.4–1.6 (Intentionally Open)

1.7 Operations Manual

△

DSP 1.7.1 The Operator shall have an Operations Manual (OM) for the use of operational control personnel, which may be issued in separate parts, and which contains or references the policies, procedures and other guidance or information necessary for compliance with applicable regulations, laws, rules and Operator standards. As a minimum, the OM shall:

- (i) Be managed and controlled in accordance with [ORG 2.1.1](#);
- (ii) Have all parts relevant to operational control personnel clearly identified and defined;
- (iii) Be in accordance with the specifications in [Table 3.2](#). **(GM)**

Auditor Actions

- △ **Identified/Assessed** operational documents that comprise the OM (focus: external documents referenced in OM/used by operational control personnel).
- ⊗
- △ **Interviewed** responsible operational control manager(s).
- ⊗
- △ **Examined** selected parts of OM (focus: contents in accordance with in [Table 3.2](#)).
- Other Actions** (Specify)

Guidance

The intent of this provision is to ensure operational control personnel are able to find all information necessary to perform their functions either within the OM or within another document that is referenced in the OM. The OM is normally identified as a source of operational information approved or accepted for the purpose by the operator or the State.

Human factors are considered in the design of the OM to achieve the following:

- Preparation of documentation in a useable format for information presentation, at the appropriate reading level and with the required degree of technical sophistication and clarity.
- Improving user performance through the use of effective and consistent labels, symbols, colors, terms, acronyms, abbreviations, formats and data fields.

- Ensuring the availability and usability of information to the user for specific tasks, when needed, and in a form that is directly usable.
- Designing operational procedures for simplicity, consistency and ease of use.
- Enabling operators to perceive and understand elements of the current situation and project them to future operational situations.
- Minimizing the need for special or unique operator skills, abilities, tools or characteristics.
- Assessing the net demands or impacts upon the physical, cognitive and decision-making resources of the operator, using objective and subjective performance measures.

2 Training and Qualification

2.1 Training and Evaluation Program

General

△ **DSP 2.1.1** The Operator shall have a training program, approved or accepted by the Authority, to ensure the operational control personnel specified in [Table 3.1](#), as applicable, are competent to perform any assigned duties relevant to operational control in accordance with the applicable specifications of [Table 3.5](#). Such program shall, as a minimum, address:

- (i) Initial qualification;
- (ii) Continuing qualification. **(GM)**

Auditor Actions

- △ **Identified/Assessed** training program for operational control personnel (focus: program addresses initial/continuing qualification for functions specified in [Table 3.1](#)).
- △ **Interviewed** responsible operational control manager(s).
- △ **Examined** training/qualification course curricula for operational control personnel (focus: course content as specified in [Table 3.5](#)).
- △ **Examined** training/qualification records of selected operational control personnel (focus: completion of initial/recurrent training).
- Other Actions** (Specify)

Guidance

△ Refer to the IRM for the definition of [Continuing Qualification](#), [State Acceptance](#) and [State Approval](#). Not all states require the approval or acceptance of a training program for operational control personnel. In such cases, state acceptance is considered implicit.

A training program for operational control personnel typically addresses:

- For FOO and FOA personnel, initial and recurrent training in accordance with the specifications of [Table 3.1](#) and [Table 3.5](#);
- For FOO and FOA personnel, a method of qualification through written, oral and/or practical evaluation;
- For administrative support personnel as defined in [Table 3.1](#), on-the-job training (OJT), job descriptions, task cards, guidelines, checklists, training materials or other written means to establish competence.

The training curriculum normally specifies minimum training hours for each subject area and also indicates whether it has been mandated by the Authority or operator.

The specifications of this provision apply to FOO or FOA personnel who are delegated authority and/or assigned responsibilities in accordance with [DSP 1.3.4](#) and/or [DSP 1.3.5](#), respectively.

FOO personnel who have completed training programs conducted in accordance with ICAO Doc 7192-AN/857, Part D, Training Manual—Flight Operations Officers/Flight Dispatchers, Second Edition, meet the specifications of this provision.

FOO initial training programs contain all of the competencies in [Table 3.5](#) that are relevant to the operations of the operator.

FOA initial training programs contain the competencies in [Table 3.5](#) that are relevant to their job function as determined by the operator.

- △ Different methods of conducting recurrent training are acceptable, including formal classroom study, home study, computer-based training, seminars and meetings. All recurrent training, regardless of method, is documented and retained in accordance with [ORG 2.2.1](#).

3 Line Operations

DSP 3.1.1 (Intentionally open)

- △ **DSP 3.1.2** The Operator shall have a process or procedures to ensure the PIC is provided with all documents, information and data necessary for the safe conduct of the flight. **(GM)**

Auditor Actions

- △ **Identified/Assessed** operational control process/procedure for provision of documentation to flight crew (focus: definition of required documents/information/data provided to flight crew).
- △ **Interviewed** responsible operational control manager(s).
- Other Actions** (Specify)

Guidance

The OM typically specifies the documents required by the PIC for the safe conduct of each flight. This list of required documents may also be replicated on the folder/envelope containing such documents or displayed in the operational control/flight dispatch center/office for reference purposes.

Additionally, the process or procedures associated with the provision of flight documents typically includes safeguards to ensure all of the required documents are provided to the PIC prior to each flight.

3.2 (Intentionally Open)

- △ **DSP 3.2.1** The Operator shall have guidance and procedures to ensure a planned flight does not exceed:

- (i) The maximum performance takeoff and landing weight limits, based upon environmental conditions expected at the times of departure and arrival;
- (ii) The aircraft structural takeoff, en route and landing weight limits. **(GM)**

Auditor Actions

- Identified/Assessed** guidance/procedures for application of aircraft performance data for planned flights (focus: flight planning accounts for aircraft takeoff/en route/landing performance weight limitations).
- Interviewed** responsible operational control manager(s).
- Coordinated** with maintenance operations (focus: preflight consideration of aircraft performance limitations).
- Other Actions** (Specify)

Guidance

The intent of this provision is to ensure the presence of guidance and procedures for the calculation of maximum takeoff and landing weights, based on takeoff, en route, landing performance, structural limitations as well as any applicable MEL restrictions. Additionally, such guidance and procedures address the means used to prevent an aircraft from being loaded in a manner that precludes a flight from being operated overweight (e.g. notification of weight restrictions to a Load Control Center/office or equivalent).

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□ 4 Operational Control Requirements and Specification

4.1–4.2 (Intentionally Open)

DSP 4.3.1 The Operator shall have a system, process and/or procedures to ensure an aircraft carries a sufficient amount of usable fuel to complete each planned flight safely and allow for deviations from the planned operation. **(GM)**

Auditor Actions

- **Identified/Assessed** system/process/procedures for fuel planning for all flights (focus: flight planning takes into account possible deviations from planned operation in calculating usable fuel for safe completion of flight).
- **Interviewed** responsible operational control manager(s).
- **Examined** selected OFPs (focus: fuel load meets/exceeds minimum required departure/dispatch fuel).
- **Coordinated** with flight operations (focus: complementary procedures for assessing minimum required fuel).
- **Other Actions** (Specify)

Guidance

The intent of this provision is to define the foundation necessary to support the practical implementation of an operator's fuel policy. It also addresses the baseline criteria to be considered in any methodology used in the determination of total usable fuel required to complete each planned flight safely. Simply put, it requires an operator to use system, process and/or procedures alone or in any combination in order to fulfill operational requirements related to the implementation of its fuel policy. In all cases the robustness of any such methodologies is commensurate with the breadth and complexity of the operation and takes into account:

- The aircraft-specific data and operating conditions for the planned operation.
- The following components of usable fuel required in accordance with the respective provisions of this sub-section:
 - Taxi fuel;
 - Trip fuel in;
 - Contingency fuel;
- If required (as applicable to each flight):
 - Destination alternate fuel, or
 - No-alternate fuel or
 - Isolated airport fuel
- Final reserve fuel;
- If required, additional fuel;
- If requested by the PIC, or the PIC and FOO in a shared system of operational control, discretionary fuel.

Some regulatory authorities or operators may classify destination alternate fuel, no alternate fuel and Isolated airport fuel under the common heading of "Alternate Fuel" in regulations and/or flight planning systems.

It is important for operational control personnel and the flight crew to have a clear and common understanding of the terms used in the operator's fuel policy, as such understanding is the key to successful flight planning and completion. Equally important is the notion that differences in terminology may exist from operator to operator. Regardless of the terms used, however, an operator can conform to the provisions of this sub-section if the pre-flight computation of usable fuel is

substantially equivalent, allocates fuel in a similar fashion, and has the components that, when combined, result in an equivalent or greater amount of fuel.

Fuel calculations are typically made by a flight crew member, a Flight Operations Officer/Flight Dispatcher (FOO), or both.

Guidance on the organizational and operational systems and processes related to the implementation of fuel policy is contained in the ICAO Flight Planning and Fuel Management Manual (Doc 9976).

Table 3.1—Operational Control Personnel

This table categorizes operational control personnel, defines the scope of their authority, identifies their responsibilities and illustrates the relationship of such responsibilities to the operation as a whole. It shall be used for the purposes of applying relevant [Section 3](#) provisions and is provided to ensure suitably qualified persons are designated, where applicable, to support, brief and/or assist the pilot-in-command (PIC) or FOO or designated member of management in the safe conduct of each flight. The terms used in the table to identify operational control personnel are generic and might vary. Personnel, however, employed in operational control functions that are delegated the authority and/or assigned the responsibility to carry out functions, duties or tasks, as outlined in the table, are subject to the training and qualification requirements commensurate with their position.

△ Operational Control ↓	Authority (DSP 1.3.4)	Responsibilities, Including the Assignment of Functions, Duties or Tasks (DSP 1.3.5)	Training and Qualification <i>Operator shall designate responsibilities and ensure personnel are competent to perform the job function.</i>
Administrative Support Personnel ¹ (e.g. gate agent)	None Do not make recommendations or decisions regarding the operational control of a flight.	Provide, collect or assemble operational documents or data only.	Not subject to initial and recurrent training in the competencies of operational control in Table 3.5 and are qualified via On the Job Training (OJT), job descriptions, task cards, guidelines, checklists, training materials or other written means to establish competence.
△ Flight Operations Assistant (FOA) ⁴ (e.g. Weather Analysts, Navigation Analysts/Flight Planning Specialists, Load Agents/Planners, Operations Coordinators/Planners, Maintenance controllers, Air Traffic Specialists, Planners/Controllers unless qualified in accordance with GRH)	None or limited to area(s) of expertise May be authorized to make decisions or recommendations in area(s) of expertise. ⁵ (e.g., maintenance controller grounds aircraft.)	Support, brief and/or assist the PIC or FOO. Specializes in one or more of the elements of operational control. ³ Collects, provides filters, evaluates and applies operational documents or data relevant to specific elements of operational control. Makes recommendations or decisions in area(s) of expertise.	For each area of expertise or specialization ³ Subject to initial and recurrent training in accordance with DSP 2.1.1 specific competencies of Table 3.5 relevant to the job function and operations of the Operator.

Table 3.1—Operational Control Personnel			
<p>Flight Dispatcher or Flight Operations Officer (FOO)⁴ or Designated Member of Management (e.g. Director of Operations or other nominated Post Holder)</p>	<p>None or limited or shared² May share operational control authority with the PIC.² May be authorized to make recommendations or decisions.⁵</p>	<p>May share operational control responsibility with the PIC.² Support, brief, and/or assist the PIC. Collects, provides, filters, evaluates and applies operational documents or data relevant to all elements of operational control.³ Makes recommendations or decisions.</p>	<p>Subject to initial and recurrent training in accordance with DSP 2.1.1 and <u>all</u> competencies of Table 3.5 relevant to the operations of the Operator.</p>
<p>Pilot in Command (PIC)</p>	<p>Full/shared² Has final authority to ensure the safe operation of the aircraft. May share authority and responsibility for operational control.</p>	<p>Full/shared² Responsible for safe conduct of the flight. Collect, provide, filter, evaluate and applies operational documents or data relevant to all competencies of operational control.³</p>	<p>Subject to training and qualification requirements specified in ISM Section 2.</p>
<p>Legend</p>	<p>1 - Personnel lacking any authority or responsibility for operational control are identified in the table for the purposes of excluding them from the training and qualification provisions of this section.</p> <p>2 - FOO personnel used in conjunction with a shared system of operational share authority and responsibility with the PIC.</p> <p>3 - The competencies of operational control are contained in Table 3.5. FOA personnel that specialize in one competency of operation control may be referred to as Weather Analysts, Navigation Analysts/Flight Planners, Operations Coordinators/Planners, Maintenance controllers, Air Traffic Specialists and Load Agents,/Planners/ Controllers unless qualified in accordance with GRH.</p> <p>4 - The terms used in this table to identify operational personnel are generic and may vary. Personnel utilized in operational control functions and assigned the responsibilities delineated in the table are subject to the relevant qualification and training provisions in this section.</p> <p>5 - Authority limited in scope to decision making in area of expertise.</p>		

Table 3.2—Operations Manual (OM) Content Specifications

This table contains the fundamental OM content specifications required to achieve conformity with [DSP 1.7.1](#). It also specifies [Section 2](#) (FLT) provisions that must be addressed in the sections of the OM relevant to personnel with responsibilities related to the operational control of flights.

Note: Specific policies, guidance, data and/or procedures that must be addressed in the sections of the OM relevant to operational control personnel can be found in individual [Section 3](#) provisions and are not duplicated in the table.

General Information	FLT ISARP
(i) General Operations Manual (GOM), to include:	None
(a) Non-aircraft type related and/or standard operating procedures for each phase of flight, policies, procedures, checklists, descriptions, guidelines, emergency procedures and other relevant information;	None
(b) Authorities, duties and responsibilities associated with the operational control of flights;	None
(c) The requirement for commercial flights to be conducted under an IFR flight plan and in accordance with an IFR flight plan.	FLT 3.10.1
Aircraft Operating Information	FLT ISARP
(ii) Aircraft Operating Manual (AOM), to include:	None
(a) Normal, abnormal/non-normal and emergency procedures, instructions and checklists;	None
(b) Aircraft systems descriptions, limitations and performance data.	None
(iii) MEL and CDL, to include applicability and a description of the relationship between the Minimum Equipment List (MEL) and the Master Minimum Equipment List (MMEL);	None
(iv) Aircraft specific weight and balance instructions/data;	None
(v) Instructions for the conduct and control of ground de/anti-icing operations.	FLT 3.9.6
Areas, Routes and Airport Information	
(vi) Route and airport instructions and information (departure, destination, en route and destination alternates, to include:	
(a) Airway manuals and charts, including information regarding communication facilities and navigation aids;	
(b) Airport charts, including the method for determining airport operating minima, operating minima values for destination and alternate airports and the increase of airport operating minima in case of degradation of approach or airport facilities;	
(c) Airport and runway analysis manual or documents:	
(d) If applicable, flight following requirements and instructions to ensure the PIC notifies the operator of en route flight movement or deviations from the OFP including procedures for loss of communication between the aircraft and the FOO;	
(e) Instructions for the conduct of precision and non-precision approaches, including approach minima;	
(f) If applicable, procedures for the conduct of long-range navigation;	
(g) Supplemental oxygen requirements and escape routes in case of decompression in an area of high terrain, if applicable;	
(h) Regional guidance necessary to comply with local regulations.	

Table 3.2—Operations Manual (OM) Content Specifications

Training Information	
(vii)	Training Manual, to include:
(a)	Details of all relevant training programs, policies, directives and requirements, including curricula and syllabi, as applicable, for initial qualification, continuing qualification and other specialized training;
(b)	Curricula for ground training, evaluation and certification;
(c)	Comprehensive syllabi to include lesson plans, procedures for training and conduct of evaluations;
(d)	The training program for the development of knowledge and skills related to human performance (Crew Resource Management/Dispatch Resource Management, CRM/DRM).
Other Information	
(viii)	Cabin safety and emergency procedures relevant to operational control personnel.
(ix)	Dangerous Goods manual or parts relevant to operational control personnel, to include information and instructions on the carriage of dangerous goods and action to be taken in the event of an emergency.
(x)	Security Manual or parts relevant to operational control personnel, including bomb search procedures.

Table 3.3 and Table 3.4—(Intentionally Open)



Table 3.5—Competencies of Operational Control

The Operator shall ensure FOO or FOA personnel demonstrate knowledge and/or proficiency in the competencies of operational control appropriate to the assignment of responsibility to carry out operational control functions, duties, or tasks, to include, as applicable:

Competency	FOO	FOA	FOA Relevancy Examples
(i) Contents of the Operations Manual relevant to the operational control of flights;	3	3B	Relevant contents
(ii) Radio equipment in the aircraft used;	3	3B	As relevant to function
(iii) Aviation indoctrination;	3	3B	Subjects relevant to function
(iv) Navigation equipment in the aircraft used, including peculiarities and limitations of that equipment;	3	3B	Navigation Analysts, Flight Planners
(v) Seasonal meteorological conditions and hazards;	3	3B	Weather Analysts/ Meteorologists
(vi) Source of meteorological information;	3	3B	Weather Analysts/ Meteorologists
(vii) Effects of meteorological conditions on radio reception on the aircraft used;	3	3B	Weather Analysts/ Meteorologists
(viii) Aircraft mass (weight) balance and control;	3	3B	Load Planners
(ix) Human performance relevant to operations or dispatch duties (CRM/DRM);	3	N/A	Not Applicable
(x) Operational procedures for the carriage dangerous goods;	2	2B	As relevant to function
(xi) Operational procedures for the carriage of cargo;	3B	3B	As relevant to function
(xii) Operational emergency and abnormal procedures;	2B	2B	As relevant to function
(xiii) Security procedures (emergency and abnormal situations);	3	3B	As relevant to function
(xiv) Civil Air Law and regulations;	3	3B	Air Traffic Managers
(xv) Aircraft mass (weight) and performance;	3	3B	Load Planners
(xvi) Navigation, special navigation;	3	3B	Navigation Analysts
(xvii) Special airports;	3A	3AB	Flight Planners
(xviii) Air traffic management;	3	3B	Air Traffic Managers
(xix) Aircraft systems and MEL/CDL;	3	3B	MX Controllers
(xx) Flight planning;	3	3B	Flight Planners
(xxi) Flight monitoring;	3	3B	Flight Followers
(xxii) Communication;	3	3B	Flight Followers
(xxiii) Fuel supply (aircraft and fuel type requirements);	3	3B	Flight Planners
(xxiv) De-icing/anti-icing procedures;	3A	3AB	As relevant to function
(xxv) Procedures for operations beyond 60 minutes including, if applicable, EDTO.	3A	3AB	Flight Planners

Table 3.5—Competencies of Operational Control	
Legend	
1:	Shall be satisfactorily completed during initial training and once every calendar year plus or minus one calendar month from the original qualification anniversary date or base month.
2:	Shall be satisfactorily completed during initial training and once every 24 months.
3:	Shall be satisfactorily completed during initial training and once every 36 months plus or minus one month from the original qualification tri-annual anniversary date or base month.
A:	If relevant to the operations of the Operator.
B:	If relevant to area of expertise or job function (e.g. Flight Planning, Maintenance Control, Load Planning, etc.).
Notes	
<p>FOO personnel that are assigned overall operational control responsibility for specific flights, assigned responsibilities in all competencies of operational control or utilized in shared systems of operational control demonstrate knowledge and/or proficiency in all applicable competencies in this table. FOO or FOA personnel assigned the individual responsibility to carry out specific operational control functions, duties or tasks demonstrate knowledge and/or proficiency in competencies relevant to area of expertise or function as determined by the operator or State.</p> <p>It is important to note that some operators might choose to assign the responsibility for specific operational control functions to fully qualified FOO personnel. In such cases an FOO is acting in a limited capacity and although qualified in all competencies of operational control, would be functionally acting as an FOA.</p>	

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Section 4 — Aircraft Engineering and Maintenance (MNT)

Applicability

△ **Section 4** is applicable to all operators, and addresses aircraft engineering and maintenance functions relevant to the airworthiness of the aircraft, engines and components.

Individual provisions or sub-specifications within a provision that:

- Begin with a conditional (“If the Operator...”) are applicable if the operator meets the condition(s) stated in the phrase.
- Do not begin with a conditional phrase are applicable unless determined otherwise by the Auditor. An operator may choose to have certain functions within the scope of ground handling operations (e.g. aircraft loading, aircraft ground handling) performed by maintenance operations personnel. If this situation exists, the operator must be in conformity with the ISARPs contained in **Section 6, Ground Handling Operations (GRH)**, that are applicable to the ground handling functions performed by maintenance operations personnel.

Where an operator outsources the performance of aircraft engineering and maintenance functions to external organizations, the operator retains overall responsibility for such functions, and must demonstrate processes for monitoring the applicable external organization(s) in accordance with **ORG 3.5.2** located in Section 1 of this manual.

General Guidance

△ Definitions of technical terms used in this ISM **Section 4**, as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

1 Management and Control

1.1–1.2 (Intentionally Open)

1.3 Maintenance Program

△ **MNT 1.3.1** The Operator shall provide, for the use and guidance of relevant maintenance and operational personnel, a Maintenance Program that is, approved by the relevant Authority and contains information and data for each aircraft type/model and configuration in the Operator’s fleet in accordance with specifications in **Table 4.1**. The Maintenance Program shall satisfy:

- Requirements of the State of Registry;
- Requirements of the State of Design;
- Requirements of the Operator;
- Maintenance specifications provided by the aircraft, engine and component OEMs. **(GM)**

Auditor Actions

- **Identified** an approved maintenance program for each aircraft type.
- **Interviewed** responsible manager(s).
- △ □ **Examined** selected maintenance program(s) (content in accordance with specifications in **Table 4.1**).
- **Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Approved Maintenance Organization \(AMO\)](#), [State of Design](#) and [State of Registry](#).

- An aircraft maintenance program is usually approved by the authority of the State of the Operator. However, when an operator utilizes an aircraft registered in a different state, it is possible that the maintenance program could be approved by the authority of the State of Registry.
- △ An operator's authority typically holds the operator responsible for the definition the control and the provision of Maintenance Data and an Approved Maintenance Program for use by the operator and its maintenance organization.
- ⊗
- ⊗
- △ The aircraft is maintained under one approved operator's aircraft maintenance program. When an operator wishes to change from one approved operator's aircraft maintenance program to another approved program, a transfer check/inspection may need to be performed, as agreed with the Authority, in order to implement the change.

The operator's aircraft maintenance program contains a preface that defines the maintenance program contents, the inspection standards to be applied, permitted variations to task frequencies and, where applicable, any procedure to escalate established check/inspection intervals.
- A reliability program provides an appropriate means of monitoring the effectiveness of the maintenance program. Maintenance program optimization relies on implementation of the reliability program.
- △ Some approved operators' aircraft maintenance programs, not developed from the MRB Process, use reliability programs as the basis of the approval. The purpose of a reliability program is to ensure that the aircraft maintenance program tasks are effective and carried out at appropriate time intervals. Actions resulting from the reliability program may result in the escalation, addition or deletion of maintenance tasks, as deemed necessary.

The maintenance program typically contains the following information:

 - The type/model and registration number of the aircraft, engines and, where applicable, auxiliary power units (APUs) and propellers;
 - The name and address of the operator;
 - The operator's reference identification of the program document, the date of issue and issue number;
 - A statement signed by the operator to the effect the specified aircraft is maintained in accordance with the program and that the program is reviewed and updated as required;
 - Contents/list of effective pages of the document;
 - Check periods that reflect the anticipated utilization of the aircraft and where utilization cannot be anticipated, calendar time limits are included;
 - Procedures for the escalation of established check periods, where applicable, and acceptable to the Authority;
 - Provision to record date and reference to approved amendments incorporated in the program;
 - Details of preflight maintenance tasks accomplished by maintenance personnel and not included in the Operations Manual for action by flight crew;
 - The tasks and the periods (intervals/frequencies) at which each part of the aircraft, engines, APUs, propellers, components, accessories, equipment, instruments, electrical and radio apparatus and associated systems and installations are to be inspected, together with the type and degree of inspection;
 - The periods when items are checked, cleaned, lubricated, replenished, adjusted and tested;

- Details of specific structural inspections or sampling programs;
- Details of the corrosion control program, when applicable;
- The periods and procedures for the collection of engine health monitoring data;
- The periods when overhauls and/or replacements by new or overhauled parts are to be made;
- A cross-reference to other documents approved by the Authority that contain the details of maintenance tasks related to mandatory life-limitations, Certification Maintenance Requirements (CMRs) and Airworthiness Directives (ADs);

Note: To prevent inadvertent variations to such tasks or intervals, these items would not be included in the main portion of the maintenance program document, or any planning control system, without specific identification of their mandatory status.

- Details of, or cross-reference to, any required Reliability Program or statistical methods of continuous surveillance;
- A statement that practices and procedures to satisfy the program are to the standards specified in the Type Certificate Holder's Maintenance Instructions. When practices and procedures are included in a customized operator's maintenance manual approved by the Authority, the statement refers to this manual;
- Each maintenance task quoted is defined in the definitions section of the program;
- Statements that indicate the maintenance program meets all applicable instructions for continuing airworthiness developed by the Type Certificate Holder as issued or amended by the operator's reliability program, STC holders, DERs, ODAs and/or DOA;
- Statements that indicate changes or deviations from the Type Certificate Holder's Maintenance Instructions or OEM maintenance specifications are made in accordance with the operator's approved procedures.

An operator's approved aircraft maintenance programs are subject to periodic review to ensure they reflect current Type Certificate Holder's recommendations, revisions to the Maintenance Review Board Report and the mandatory requirements and maintenance needs of the aircraft. The operator reviews the detailed requirements at least annually for continued validity in light of the operating experience.

⊗

MNT 1.3.2 (Intentionally open)

△

MNT 1.3.3 The Operator shall ensure amendments to the Maintenance Program:

- (i) Are approved by the Authority unless the Operator has been approved to amend the Maintenance Program without requiring approval of the Authority;
- (ii) Are furnished to all organizations and/or persons to whom the Maintenance Program has been issued.

Auditor Actions

- △ □ **Identified/Assessed** maintenance program (focus: defines processes for amendment approval and dissemination).
- △ □ **Identified** the organizations and/or persons to which the maintenance program(s) are issued.
- △ □ **Interviewed** responsible manager(s).
- △ □ **Examined** selected records of recent maintenance program amendments (focus: if applicable, approval by Authority; dissemination to all program users).
- **Other Actions** (Specify)

1.4–1.6 (Intentionally Open)

△ 1.7 Maintenance Management Manual (MMM)

MNT 1.7.1 The Operator shall have, for the use and guidance of relevant maintenance and operational personnel, a Maintenance Management Manual that is accepted or approved by the Authority. The MMM may be issued in separate parts and shall contain maintenance policies, procedures and information as specified in [Table 4.3](#). The design of the manual shall observe Human Factors principles. **(GM)**

Auditor Actions

- △ **Identified/Assessed** the MMM.
- △ **Interviewed** responsible manager(s).
- △ **Examined the MMM** (regulatory approval/acceptance and content in accordance with specifications in [Table 4.3](#)).
- Other Actions** (Specify)

Guidance

An MMM is a document that defines how an operator, through its AMO and all contracted AMOs, accomplishes and controls its aircraft maintenance activities. This document sets out:

- The description of the maintenance management system and its senior personnel;
- Each location where maintenance is carried out;
- The Approved Data for accomplishing aircraft maintenance;
- The procedures by which Engineering and Maintenance is managed.

The MMM provides all Engineering and Maintenance personnel with the necessary information to enable them to accomplish their duties and allow the Authority to understand and approve how the operator and its AMO comply with the applicable Airworthiness Requirements.

The MMM can comprise one manual or a suite of manuals. The MMM may have specific sections extracted to form a customized manual for distribution to maintenance contractors, line stations and others, as applicable.

The MMM can be a generic term for the MCM, QPM, MOM, QM, IPM, MME and others. The purpose of the MMM is to set forth the procedures, means and methods of the operator in fulfilling its maintenance responsibilities. Compliance with its contents assures fulfillment of the operator's maintenance responsibilities.

The management section in the MMM may be produced as a stand-alone document and made available to the key personnel required to be familiar with its contents.

Working procedures between the operator and AMO are established and may be produced as any number of separate procedures manuals and cross-referenced from the management part of the MMM. The list of AMO Certifying Personnel may be produced as a separate document.

Personnel from both the operator and the AMO are expected to be familiar with sections of the manuals that are relevant to the work they carry out.

Responsibilities and procedures for revisions to the management part of the MMM and any associated manuals are to be specified.

The Quality Manager of the operator is responsible for monitoring revisions to the MMM unless otherwise agreed by the Authority.

Unless the Authority has agreed via a procedure stated in the amendment section of the MMM that certain defined classes of amendments may be incorporated without prior Authority approval, this process includes monitoring revisions to the associated procedures manuals.

The MMM normally has at least the following four main parts to cover the items in [Table 4.3](#):

- Organization and management;
- Maintenance procedures;
- Quality system procedures;
- Contracted maintenance procedures and paperwork.



The MMM also typically contains:

- An organization chart;
- Procedures to ensure:
 - Each aircraft operated is maintained in an airworthy condition;
 - The operational and emergency equipment necessary for an intended flight is serviceable;
 - The Certificate of Airworthiness of each aircraft operated remains valid.
- A description of the quality system;
- A description of the procedure for receiving, amending and distributing all necessary airworthiness data from the type certificate holder or type design organization;
- A statement signed by the operator confirming the MMM and any incorporated documents identified therein reflect the operator's means of compliance with the Authority requirements;
- A description of the MMM amendment control procedure;
- A means of identifying each page of the MMM. This can be in the form of a list of effective pages with each page numbered and either dated or marked with a revision number;
- A description of the system used to distribute the MMM, including a distribution list; for non-scheduled work, temporary copies of the relevant portions of the MMM, or any incorporated reference, may be sent via facsimile transmission;
- A detailed description of the procedures used to ensure that any maintenance tasks required by the maintenance schedule, airworthiness directives or any task required for the rectification of a defect are completed within the required time constraints;
- A description of the evaluation program required by these standards;
- A description of the defect rectification and control procedures, including details of:
 - The methods used to detect and report recurring defects;
 - The procedures for scheduling the rectification of defects whose repair has been deferred, if these procedures have not been incorporated into the MEL preamble.
- The procedures used to report service difficulties in accordance with these standards;
- A description of the technical dispatch procedures, including procedures for ferry-flight authorizations EDTO (equivalent terms ETOPS, EROPS, LROPS), all weather operation or any other special operation;
- A description of personnel records to be retained;
- A description of the procedure used to ensure the empty weight and balance of each aircraft is recorded in accordance with the applicable State of Registry/Authority requirements;
- Maintenance arrangements and a list of all such arrangements, including the procedure used to communicate to an approved maintenance organization the maintenance requirements for planned and unforeseen maintenance activities, as well as those mandated by airworthiness directives;
- Procedure for revising and maintaining the MMM up to date and current;
- Approval of the Authority through approval of the list of effective pages or, in the case of manuals containing a small number of pages, approval can be identified on each page.



MNT 1.7.2–1.7.5 (Intentionally open)

MNT 1.7.6 The Operator shall ensure a copy of the current version of the MMM, or relevant portions thereof, is promptly made available to:

- (i) Applicable authorities;
- (ii) Each organization or person that performs or certifies maintenance for the Operator;
- (iii) All other organizations or persons to whom the MMM has been issued.

2 Maintenance Control

2.1 Control System

MNT 2.1.1 The Operator shall have a maintenance control system that is in accordance with procedures acceptable to the Authority and ensures:

- (i) Each aircraft is maintained in an airworthy condition;
- (ii) Operational and emergency equipment necessary for flight is serviceable;
- (iii) The Certificate of Airworthiness of each aircraft remains valid.

Auditor Actions

- Identified/Assessed** the process(es) for dissemination of the MMM.
- Interviewed** responsible manager(s).
- Examined** the distribution list for dissemination of the MMM.
- Examined** selected records of MMM and amendment distribution(s) to organizations/persons that perform/certify maintenance.
- Other Actions** (Specify)

2.2 Maintenance Planning

MNT 2.2.1 The Operator shall have a system for forecasting and tracking required maintenance activities.

Auditor Actions

- Identified/Assessed** the system for forecasting and tracking required maintenance activities.
- Interviewed** responsible manager(s).
- Interviewed** maintenance scheduling/planning personnel.
- Examined** selected scheduled/planned maintenance tasks.
- Other Actions** (Specify)

2.3 Parts Installation

MNT 2.3.1 The Operator shall have a process to ensure that no new part is installed on an aeronautical product unless such part meets the standards of airworthiness applicable to the installation of new parts and in addition, meets a minimum any of the following:

- (i) The new part has marking identifying it as a part specified in the type design conforming to a recognized national or international standard, or
- (ii) The part has been approved for use on an aeronautical product, in accordance with the type certificate/STC, if the part was originally designed and manufactured for non-aeronautical use, or
- (iii) The new part was manufactured under a Parts Manufacturer Approval (PMA), or
- (iv) The new part was produced by the Operator using approved procedures for the purpose of maintaining or alerting its own aeronautical product. **(GM)**

Auditor Actions

- Identified/Assessed** the process for managing and controlling new parts and parts installation.
- Interviewed** responsible manager(s).
- Examined** selected parts installed on aircraft as new parts.
- Other Actions** (Specify)

- Guidance**

The operator is responsible for providing an external AMO with approved documentation that contains information about parts allowed to be installed on its aircraft. Such documentation enables the external AMO to validate the airworthy condition of the part and its certification for installation on the aeronautical product being maintained. The “approved documentation” category typically includes as necessary, without being limited to, any of the following: MMM, IPC (including Supplements), AD, SB, Work Order, Repair Order, Form 8130-3/EASA Form 1/or equivalent. The production of parts by an operator for its own use, as specified in item (iv), is acceptable provided there are approved procedures identified in the MMM.

- MNT 2.3.2** The Operator shall have a process to ensure that no used part is installed on an aeronautical product unless such part meets the standards of airworthiness applicable to the installation of used parts and any of the following:
 - (i) An airworthy part that has been removed from an aircraft for immediate installation on another aircraft, **or**
 - (ii) An airworthy part that has undergone maintenance for which a maintenance release has been signed by an appropriately rated Approved Maintenance Organization (AMO);
 - (iii) An airworthy part that has undergone an approved repair or alteration that restored the certificated level of airworthiness to a used part. **(GM)**

Auditor Actions

- Identified/Assessed** the process for managing and controlling used parts and parts installation.
- Interviewed** responsible manager(s).
- Examined** selected parts installed on aircraft for certificates.
- Other Actions** (Specify)

Guidance

The operator is responsible for providing an external AMO with approved documentation that contains information about parts allowed to be installed on its aircraft. Such documentation enables the external AMO to validate the airworthy condition of the part and its certification for installation on the aeronautical product being maintained. The “approved documentation” category typically includes as necessary, without being limited to, any of the following: MMM, IPC (including Supplements), AD, SB, Work Order, Repair Order, Form 8130-3/EASA Form 1/or equivalent.

- MNT 2.3.3** The Operator shall have a process to ensure that no used life-limited part is installed on an aeronautical product unless such part meets the standards of airworthiness applicable to the installation of life-limited parts and:
 - (i) The technical history of the part is available to demonstrate the time in service, as authorized for that part in the type certificate governing the installation, has not been exceeded;
 - (ii) The technical history referred to in sub-paragraph (i) is incorporated into the technical record for the aeronautical product on which the part is installed. **(GM)**

Auditor Actions

- Identified/Assessed** the process for managing and controlling used life-limited parts and parts installation.
- Interviewed** responsible manager(s).
- Interviewed** personnel that execute procedures for tracking life-limited parts.
- Traced** the technical history of selected life-limited parts.
- Other Actions** (Specify)

- Guidance**
The operator is responsible for providing an external AMO with approved documentation that contains information about parts allowed to be installed on its aircraft.

In general, it is best for an operator to have a fully traceable history for all life-limited parts. Not all parts have a fixed life. The life of some parts might be variable depending on the way the part has been used in the past. For example, load-bearing parts (e.g. landing gear components) that can be installed on different aircraft types (e.g. A319, A320, A321) will have a shorter life if installed on the heavier aircraft (as opposed to the same part installed on a lighter aircraft). Therefore, a complete history of these types of components is critical in knowing exactly when the life of the part will expire. For parts that have a fixed life (e.g. batteries, slides), traceability to birth is not a requirement. However, in such cases, it is very important that the operator has documentation that shows clearly that the used part has not exceeded its airworthiness life limit.

2.4 Deferred Maintenance

MNT 2.4.1 The Operator shall have a maintenance control function that is responsible for approving, controlling, monitoring and scheduling non-routine and deferred maintenance activities, including MEL/CDL requirements.

Auditor Actions

- Identified** the description of the maintenance control center (MCC) (or equivalent).
 Interviewed responsible manager(s).
 Interviewed personnel responsible for selected maintenance control functions.
 Examined maintenance control processes/procedures.
 Other Actions (Specify)

MNT 2.4.2 The Operator shall have a process to ensure MEL/CDL restricted items are tracked and corrected within the required time intervals. **(GM)**

Auditor Actions

- Identified/Assessed** the process(es) for managing the MEL/CDL.
 Interviewed responsible manager(s).
 Interviewed MCC personnel.
 Examined selected records of MEL/CDL restricted items.
 Traced the tracking and correction of selected MEL/CDL restricted item(s).
 Other Actions (Specify)

Guidance

- The intent of this provision is to ensure an operator has a process to rectify all defects affecting the safe operation of the aircraft within the limits prescribed by the approved MEL or CDL. Postponement of any defect rectification cannot typically be permitted without the operator's agreement and in accordance with a procedure approved by the State of Registry/Authority.

2.5 Continuing Airworthiness

MNT 2.5.1 The Operator shall have a process to obtain and assess continuing airworthiness information, such as Airworthiness Directives (ADs), Alert Service Bulletins and recommendations from the organizations responsible for the type design, and shall implement the resulting actions considered necessary, in accordance with a procedure acceptable to the Authority.

Auditor Actions

- △ **Identified/Assessed** the process(es) for obtaining, assessing and implementing ADs and ASBs.
- ⊗ **Interviewed** responsible manager(s).
- △ **Examined** selected records of AD and SB compliance, including Task Cards.
- △ **Traced** selected AD(s) and/or SB(s) from receipt to implementation.
- Other Actions** (Specify)

MNT 2.5.2 The Operator shall have a process to monitor and assess maintenance and operational experience with respect to continuing airworthiness of aircraft of over 5,700 kg (12,566 lb) maximum certificated takeoff mass, as prescribed by the Authority. **(GM)**

Auditor Actions

- △ **Identified/Assessed** the process(es) for monitoring/assessing maintenance and operational experience in relation to continuing airworthiness.
- Interviewed** responsible manager(s).
- Interviewed** personnel that execute procedures that address continuing airworthiness.
- Other Actions** (Specify)

□ Guidance

Aircraft continuing airworthiness is usually prescribed by the authority of the State of Registry. However, it is possible that continuing airworthiness instructions could be affected by the authority of the State of the Operator and/or the State of Design.

2.6 Repairs and Modifications

MNT 2.6.1 The Operator shall have a process to ensure all modifications and repairs:

- (i) Are carried out using approved data;
- (ii) Comply with airworthiness requirements of the Authority and State of Registry.

Auditor Actions

- △ **Identified/Assessed** the process(es) for managing modifications and repairs.
- △ **Identified/Assessed** the procedures for maintaining technical records of modifications and repairs.
- Interviewed** responsible manager(s).
- Examined** selected records of aircraft modification(s) and/or repair(s).
- Other Actions** (Specify)

2.7 Defect Recording and Control

MNT 2.7.1 The Operator shall have processes for the management of recurring defects, to include:

- (i) Tracking chronic or repetitive unserviceable items;
- (ii) Documenting troubleshooting history;
- (iii) Implementing instructions for corrective action;
- (iv) Ensuring rectification takes into account the methodology used in previous repair attempts.

Auditor Actions

- △ **Identified/Assessed** the process(es) for tracking and correcting chronic or repetitive unserviceable items.
- Interviewed** responsible manager(s).
- Interviewed** personnel that execute procedures that address chronic or repetitive unserviceable items.
- △ **Examined** corrective action records for selected chronic unserviceable items.
- △ **Traced** the process for developing corrective action for chronic unserviceable item(s).
- Other Actions** (Specify)

3 Technical Records**3.1 Aircraft Maintenance Records**

MNT 3.1.1 The Operator shall have a program to ensure the following maintenance records are maintained:

- (i) Total time in service (hours, calendar time and cycles, as appropriate,) of the aircraft, engines and all life-limited components;
- (ii) Current status of compliance with all mandatory continuing airworthiness information;
- (iii) Appropriate details of modifications and repairs;
- (iv) Time in service (hours, calendar time and cycles, as appropriate,) since last overhaul of the aircraft, engines or its components subject to a mandatory overhaul life;
- (v) Current aircraft status of compliance with the Maintenance Program;
- (vi) Detailed maintenance records to show that all requirements for signing of a maintenance release have been met. **(GM)**

Auditor Actions

- △ **Identified/Assessed** the maintenance records program.
- Identified** the requirements for maintenance records that must be retained.
- Interviewed** responsible manager(s).
- △ **Examined** selected maintenance records (focus: specified records are retained/maintained).
- Other Actions** (Specify)

Guidance

Contracted maintenance organizations are required to maintain detailed records, to include certification documents that support the issuance of a maintenance release. Such requirement is typically specified in contractual arrangements, and implementation verified through oversight by the operator.

3.2 Aircraft Technical Log (ATL)

MNT 3.2.1 The Operator shall have a process to ensure all aircraft have an aircraft technical log (ATL) or approved equivalent that comprises elements specified in [Table 4.6](#).

Auditor Actions

- △ **Identified** the process(es) for management of the ATL or approved equivalent.
- Interviewed** responsible manager(s).
- △ **Examined** a minimum of one ATL (content in accordance with specifications in [Table 4.6](#)).
- **Coordinated** with FLT auditor (verify ATL is maintained for aircraft operations).
- Other Actions** (Specify)

MNT 3.2.2 The Operator shall have processes for the management of the ATL or approved equivalent as specified in [MNT 3.2.1](#) to ensure, with respect to the ATL or approved equivalent:

- (i) Entries are current and cannot be erased or deleted;
- (ii) Descriptions of errors or discrepancies that have been corrected remain readable and identifiable;
- (iii) Completed pages are retained to provide a continuous record of the last six months of operations.

Auditor Actions

- △
- Identified/Assessed** the process(es) for management of the ATL or approved equivalent.
 - Examined** a minimum of one ATL.
 - Examined** selected ATL(s).
 - Other Actions** (Specify)

3.3 (Intentionally Open)

3.4 Airworthiness Directives

MNT 3.4.1 The Operator shall maintain records of Airworthiness Directives (ADs) and Service Bulletins (SBs) or equivalents accomplished in accordance with the MMM.

Auditor Actions

- △
- Identified** the process(es) for maintaining records of AD and SB accomplishment.
 - Interviewed** responsible manager(s).
 - Examined** selected records of ADs and SBs that have been accomplished.
 - Other Actions** (Specify)

4 Maintenance Organizations

General Guidance

Refer also to Guidance associated with ORG 3.5.2 located in ISSM [Section 1](#).

Operators may or may not be approved as maintenance organizations. The following three options are possible:

- An operator is an Approved Maintenance Organization with the scope to carry out all maintenance of the aircraft and components;
- An operator is an Approved Maintenance Organization with the scope to carry out some of the maintenance of the aircraft and components. This, at minimum, could be limited to line maintenance but may be considerably more, but still short, of the first option above;
- An operator is not a Maintenance Organization;

However, irrespective of which option, most operators will always have part of their maintenance performed by external organizations.

The purpose of the ISSA process, with regard to this sub-section four, is to ensure the operator has the required monitoring and control processes, documented and implemented, to ensure its operational requirements are being satisfied by all organizations that perform maintenance on the operator's aircraft.

4.1 Approval

MNT 4.1.1 The Operator shall ensure an aircraft is not operated unless it is maintained and released to service by an Approved Maintenance Organization (AMO) that:

- (i) Is acceptable to the Authority;
- (ii) Has established procedures acceptable to the Authority to ensure maintenance practices are in compliance with all relevant requirements;
- (iii) Maintains the validity of its approval through compliance with the requirements for an approved maintenance organization acceptable to the Authority. **(GM)**

Auditor Actions

- Identified/Assessed** the process(es) for the selection of AMOs.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Approved Maintenance Organization \(AMO\)](#).

MNT 4.1.2 (Intentionally open)

MNT 4.1.3 The Operator shall ensure each maintenance organization that performs maintenance for the Operator has an approval document that contains, as a minimum:

- (i) The name and location of the AMO;
- (ii) The date of issue and period of validity of the approval;
- (iii) The scope of the approval. **(GM)**

Auditor Actions

- Identified/Assessed** the requirement criteria for regulatory approval in the AMO selection process.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Other Actions** (Specify)

Guidance

The specification in item (iii) of this provision is satisfied by the operator ensuring that the AMO approval document contains the type and level of work required by the operator.

A repair station or Approved Maintenance Organization certificate is usually delivered with ratings in one or more of the following categories or their equivalents:

- Aircraft;
- Avionics;
- Engine;
- Propeller;
- Structure and Corrosion Protection Control Program;
- Component;
- Welding;
- NDT.

4.2 (Intentionally Open)

4.3 Quality Assurance

MNT 4.3.1 The Operator shall ensure each maintenance organization that performs maintenance for the Operator has an independent quality assurance program that:

- (i) Meets the specifications and control processes contained in [Table 4.7](#);
- (ii) Monitors compliance with applicable regulations, requirements and the Maintenance Procedures Manual (MPM) of the AMO;
- (iii) Addresses the specific requirements of the Operator as specified in the maintenance agreement;
- (iv) Is under the sole control of the Quality Manager or the person assigned managerial responsibility for the program. **(GM)**

Auditor Actions

- △ **Identified/Assessed** the requirement criteria for a QA program in the AMO selection process.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Examined** selected AMO oversight/monitoring reports.
- Other Actions** (Specify)

Guidance

- Refer to the IRM for the definition of Maintenance Procedures Manual (MPM).

The primary objectives of the quality system are to enable the AMO to ensure it can deliver a safe product and remain in compliance with all requirements.

An essential element of the quality system is the independent audit. The independent audit is an objective process of routine sample checks of *all* aspects of the approved maintenance organization's ability to carry out all maintenance to the required standards. This process includes:

- Product sampling, as this is the end result of the maintenance process, which represents an objective overview of the complete maintenance-related activities; product sampling is intended to complement the requirement for certifying personnel to be satisfied that all required maintenance has been properly carried out before the issue of the certificate of release to service;
- A percentage of random audits carried out on a sample basis when maintenance is being carried out; random audits include audits done during the night for those organizations that work at night.

Another essential element of the quality system is the quality feedback system. The principal function of the quality feedback system is to ensure all findings resulting from the independent quality audits of the organization are properly investigated and corrected in a timely manner:

- Independent quality audit reports are sent to the relevant department(s) for rectification action proposing target rectification dates;
- Rectification dates are discussed with such department(s) before the quality department or nominated quality auditor confirms dates in the report;
- The relevant department(s) rectifies findings within agreed rectification dates and informs the quality department or nominated quality auditor of the completion of such rectifications.

The accountable executive is kept informed of any safety issues and the extent of compliance with authority requirements. The accountable executive also holds regular meetings with personnel to check progress on rectification. In large organizations such meetings may be delegated on a day-to-day basis to the quality manager, subject to the accountable executive meeting at least twice per year with the senior personnel involved to review the overall performance and receiving at least a half yearly summary report on findings of non-compliance.

All records pertaining to the independent quality audit and the quality feedback system are retained for at least two evaluation cycles after the date of closure of the finding to which they refer, or for such period as to support changes to the audit time periods, whichever is the longer.

Note: *The quality feedback system may not be contracted to outside persons.*

It is not intended that this QA Program be based on a system of end product inspection, but rather upon periodic verifications of all aspects of the systems and practices used for the control of maintenance to ensure compliance with regulations and with the operator's approved procedures.

The aim of the program is to provide an unbiased picture of the AMO's performance to verify that activities comply with the MPM and confirm that the systems and procedures described in the MPM remain effective and are achieving the AMO's requirements.

4.4 (Intentionally Open)

4.5 Training Program

MNT 4.5.1 The Operator shall ensure each maintenance organization that performs maintenance for the Operator has a training program that assures all maintenance personnel receive initial and recurrent training that is appropriate to individually assigned tasks and responsibilities, and provides maintenance personnel with:

- (i) The knowledge of regulations, standards and procedures in accordance with requirements in the MMM.
- (ii) The knowledge and skills related to human performance, including coordination with other maintenance personnel and/or flight crew.

Auditor Actions

- Identified/Assessed** the requirement criteria for an overall training program in the AMO selection process.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Examined** selected AMO oversight/monitoring reports.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of Human Factors Principles and [Human Performance](#).

The intent of this provision is for the operator to ensure appropriate initial and recurrent training for maintenance personnel and to ensure such training takes into account the knowledge and skills specified.

Maintenance personnel receive training in human performance to promote an understanding of the human factors (e.g. human capabilities, limitations, and the interface(s) between human and system components) involved in performing maintenance duties and coordinating with other maintenance personnel and/or flight crew. These human factors are taken into account during training to reduce human error in maintenance activities, including activities performed by an external AMO.

4.6–4.8 (Intentionally Open)

4.9 Procedures Manual

MNT 4.9.1 The Operator shall ensure each maintenance organization that performs maintenance for the Operator provides for the use and guidance of relevant maintenance personnel a Maintenance Procedures Manual (MPM), which may be issued in separate parts, that contains information, as specified in [Table 4.9. \(GM\)](#)

Auditor Actions

- △ **Identified/Assessed** the requirement criteria for an MPM in the AMO selection process.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Examined** selected AMO oversight/monitoring reports.
- △ **Examined** MPM (if available).
- Other Actions** (Specify)

Guidance

The MPM is a document that defines how an Approved Maintenance Organization accomplishes and controls its aircraft maintenance activities.

The MPM provides all personnel of the AMO with the necessary information to enable them to accomplish their duties and allows the Authority to understand and approve how the AMO complies with the applicable Airworthiness Requirements.

The MPM can comprise one manual or a suite of manuals. The MPM may have specific sections extracted to form a customized manual for distribution to maintenance contractors, line stations and others as applicable.

The purpose of the MPM is to set forth the procedures, means and methods for the AMO to accomplish maintenance. Compliance with its contents assures fulfillment of the AMO's responsibilities.

The management section in the MPM may be produced as a stand-alone document and made available to the key personnel who need to be familiar with its contents. The list of AMO Certifying Personnel may be produced as a separate document.

Responsibilities and procedures for revisions to the management part of the MPM and any associated manuals are to be specified.

The Quality Manager of the AMO is responsible for monitoring revisions of the MPM, unless otherwise agreed by the Authority.

Unless the Authority has agreed via a procedure stated in the amendment section of the MPM that certain defined classes of amendments may be incorporated without prior Authority approval, this process includes monitoring revisions to the associated procedures manuals.

The MPM also normally contains the following information:

- A brief description of the organization that includes:
 - The approximate size of the organization;
 - The geographic location of the office facilities and/or the base of operations, when not co-located;
 - Where necessary to ensure comprehension, a chart depicting the distribution of the functions.
- A statement signed by the maintenance organization confirming the MPM and any incorporated documents identified therein reflect the Organization's means of compliance with the Authority requirements;
- A description of the maintenance procedures and the procedures for completing and signing a maintenance release when maintenance is based on a system other than that of an approved maintenance organization;
- A description of the procedures for monitoring, assessing and reporting maintenance and operational experience;

- A description of procedures for assessing continuing airworthiness information and implementing any resulting actions;
- A description of the procedures for implementing action resulting from mandatory continuing airworthiness information;
- A description of procedures for ensuring that unserviceable items affecting airworthiness are recorded and rectified;
- A description of the procedures for advising the State of Registry/Authority/operator of significant in-service occurrences;
- A table of contents;
- A description of the MPM amendment control procedure;
- A means of identifying each page of the MPM. This can be in the form of a list of effective pages, with each page numbered and either dated or marked with a revision number;
- A description of the system used to distribute the MPM, including a distribution list; for non-scheduled work, temporary copies of the relevant portions of the MPM or any incorporated reference;
- Where the organization uses standards for the performance of elementary work or servicing different from those recommended by the manufacturer, the identification of those standards;
- Procedures to ensure regulatory information and technical data appropriate to the work performed are used in respect of elementary work and servicing;
- Details of the methods used to record the maintenance, elementary work or servicing performed, including the method of recording of defects in the technical record required by these standards;
- A detailed description of the procedures used to ensure that any maintenance tasks required by the maintenance schedule, airworthiness directives or any task required for the rectification of a defect are completed within the required time constraints;
- A description of the evaluation program required by these standards;
- A description of the defect rectification and control procedures, including details of:
 - The methods used to detect and report recurring defects;
 - The procedures for scheduling the rectification of defects whose repair has been deferred.
- The procedures used to report service difficulties in accordance with these standards;
- A description of the technical dispatch procedures, including procedures for ferry-flight authorizations, extended range operations (EDTO, ETOPS, EROPS, LROPS), all weather operation or any other special operation;
- Procedures to ensure that only parts and materials that meet the requirements of the State of Registry/Authority/operator are used in the performance of elementary work or servicing, including details of any spare part pool arrangements that have been entered into;
- A description of the methods used to ensure that the personnel authorized to perform elementary work or servicing are trained as required by the Authority and qualified in accordance with these requirements, as applicable;
- A description of personnel records to be retained;
- Details of the procedures applicable to maintenance arrangements and a list of all such arrangements, including the procedure used to communicate to an approved maintenance organization the maintenance requirements for planned and unforeseen maintenance activities, as well as those mandated by airworthiness directives;
- Procedure for revising and maintaining the MPM up to date and current;
- Approval of the Authority through approval of the list of effective pages or, in the case of manuals containing a small number of pages, approval can be identified on each page;
- Procedures used for the storage and control of petroleum, oil and other lubricants, as required by national regulations.

4.10 Maintenance Release

MNT 4.10.1 The Operator shall ensure each maintenance organization that performs maintenance for the Operator produces a completed and signed maintenance release that certifies all maintenance work performed has been completed satisfactorily and in accordance with the approved data and procedures described in the MPM of the maintenance organization. Such maintenance release shall include:

- (i) Basic details of the maintenance performed;
- (ii) A reference of the approved data used and, if required, the revision status;
- (iii) Maintenance tasks that were not accomplished;
- (iv) The date maintenance was completed;
- (v) When applicable, identity of the approved maintenance organization;
- (vi) Identity of the person(s) that sign the release. **(GM)**

Auditor Actions

- Identified** the requirement criteria for the production of the maintenance release in the AMO selection process.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Examined** selected AMO oversight/monitoring reports.
- Other Actions** (Specify)

Guidance

- Refer to the IRM for the definition of Maintenance Organization Exposition.
- An operator has the option of defining when the revision status of approved data (that was used during the performance of maintenance) must be included in the maintenance release. The process that defines such requirement is typically documented in the operator's MMM.
- A requirement for the documented revision status to be part of the maintenance release might depend on the particular approved data that is referenced. For example, if the Aircraft Maintenance Manual that was used for maintenance is distributed online, there would be an online record of the revision that was available at the time of maintenance, which might obviate the need for that information to be documented in the maintenance release. Conversely, the revision status of certain engineering documents and/or drawings might not be found online or be otherwise available, in which case the operator could opt to require the revision status to be included in the maintenance release for the purpose of ensuring traceability.

Aircraft CRS

A Certificate of Release to Service (CRS) is required before flight:

- At the completion of any maintenance package specified by the aircraft operator;
- At the completion of any defect rectification, while the aircraft operates flight services between scheduled maintenance.

The maintenance package may include any one or a combination of the following elements: a check or inspection from the operator's aircraft maintenance program, Airworthiness Directives, overhauls, repairs, modifications, aircraft component replacements and defect rectification.

New defects or incomplete maintenance work orders identified during maintenance are brought to the attention of the operator for the specific purpose of obtaining agreement to rectify such defects or complete the missing elements of the maintenance work order. In the case where the aircraft operator declines to have such maintenance carried out and provided this missing element/defect does not affect the airworthiness of the aircraft, this fact is entered in the aircraft CRS before issue of such certificate.

Component CRS

A CRS is necessary at the completion of any maintenance on an aircraft component while off the aircraft.

The authorized release certificate/airworthiness approval tag constitutes the aircraft component certificate of release to service when one AMO maintains an aircraft component for another AMO.

When an AMO maintains an aircraft component for use by the organization, an authorized release certificate/airworthiness approval tag may or may not be necessary, depending upon the organization's internal release procedures defined in the maintenance organization exposition and approved by the Authority.

4.11 Tooling and Calibration

MNT 4.11.1 The Operator shall have a process to ensure each maintenance organization that performs maintenance for the Operator has procedures to control and document the calibration and records of all tools, including personnel-owned tools, and preventing out-of-service and due-for-calibration tools and equipment from being used, in accordance with specifications in [Table 4.10](#).
(GM)

Auditor Actions

- Identified/Assessed** the requirement criteria for the tool calibration in the AMO selection process.
- Interviewed** responsible manager(s).
- Examined** selected AMO selection records.
- Examined** selected AMO oversight/monitoring reports.
- Observed** maintenance outsourcing management (focus: process for verifying acceptable AMO tool calibration program).
- Other Actions** (Specify)

Guidance

The control of these tools and equipment requires that the organization has a procedure to inspect/service and, where appropriate, calibrate such items on a regular basis and indicate to users that the item is within any inspection or service or calibration time limit. A clear system of labeling of all tooling, equipment and test equipment is therefore necessary, providing information on:

- When the next inspection or service or calibration is due;
- Whether the item is serviceable or unserviceable and the reason for its unserviceability.

A register is maintained for all precision tooling and equipment together with a record of calibrations and standards used.



Table 4.1—Maintenance Program Specifications

The Operator's Maintenance Program shall contain the following information for each aircraft:

- (i) Maintenance tasks and the intervals at which these tasks are to be performed, taking into account the anticipated utilization of the aircraft;
- (ii) When applicable, a continuing structural integrity program;
- (iii) A system that identifies mandatory maintenance tasks, and their corresponding intervals, for tasks that have been specified as mandatory in the approval of the type design, (i.e. Certification Maintenance Requirements or CMRs);
- (iv) Procedures for changing or deviating from (i), (ii) and (iii) above;
- (v) The reliability program and descriptions of any required health monitoring for aircraft, engines, propellers and associated parts where the maintenance program was derived using the Maintenance Review Board process;
- (vi) The procedure for periodic review of the Maintenance Program to ensure it considers current Type Certificate Holder's recommendations, revisions to the Maintenance Review Board Report, mandatory requirements and other applicable requirements from the Authority.

Table 4.2—(Intentionally Open)

Table 4.3—Maintenance Management Manual Content Specifications

The MMM shall contain the following maintenance policies, procedures and information:

- (i) A description of the administrative arrangements between the operator and the approved maintenance organization;
- (ii) Names and duties of the person or persons whose responsibilities are to ensure that maintenance is carried out in accordance with the MMM;
- (iii) A description of aircraft types and models to which the manual applies;
- (iv) A description of the maintenance procedures and the procedures for completing and signing a maintenance release when maintenance is based on a system other than that of an approved maintenance organization;
- (v) A reference to the approved maintenance program;
- (vi) A description of the methods used for the completion and retention of maintenance records, and including procedures for retaining back-up records;
- (vii) A description of the procedures for monitoring, assessing and reporting maintenance and operational experience;
- (viii) A description of the procedures for complying with the service information reporting requirements;
- (ix) A description of procedures for assessing continuing airworthiness information and implementing any resulting actions;
- (x) A description of the procedures for implementing action resulting from mandatory continuing airworthiness information;
- (xi) A description of establishing and maintaining a system of analysis and continued monitoring of the performance and efficiency of the maintenance program, in order to improve and correct any deficiency in that program;
- (xii) A description of procedures for ensuring that unserviceable items affecting airworthiness are recorded and rectified;
- (xiii) A description of the procedures for advising the Authority of significant in-service occurrences;
- (xiv) The scope, structure and functionality of the management system for maintenance operations, to include a description of departments, positions, authorities, duties, responsibilities and the interrelation of functions and activities within the system;
- (xv) A process to ensure all amendments to the MMM are approved by the Authority and/or Operator, as applicable;
- (xvi) A description of the duties, responsibilities and reporting relationships within the Quality Assurance Program, or a reference to a separate quality assurance manual, if such description is found in that manual.

Table 4.4 and 4.5—(Intentionally Open)

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Table 4.6—Aircraft Technical Log (ATL) Specifications

The Operator shall have a process to ensure all aircraft have an aircraft technical log (ATL) or approved equivalent that comprises the following elements:

- (i) Aircraft nationality and registration;
- (ii) Date;
- (iii) Place of departure;
- (iv) Place of arrival;
- (v) Time of departure;
- (vi) Time of arrival;
- (vii) Hours of flight;
- (viii) Incidents, observations, as applicable;
- (ix) Details of defects and rectifications/actions taken;
- (x) Signature and identity of the person recording the defect;
- (xi) Signature and identity of the person signing the release following maintenance**.

- **The signature and identity shall: (1) be traceable to the individual making the entry; and (2) satisfy the requirements specified in the aircraft release to service procedure of the MMM (i.e. be either a handwritten or electronic signature system or company controlled stamp identity system, as approved by the Authority).

**Table 4.7–Quality Assurance Program Specifications and Control Processes**

The Operator shall ensure each maintenance organization that performs maintenance for the Operator has an independent Quality Assurance Program that includes the following elements:

- (i) An internal audit/evaluation program;
- (ii) An established audit schedule that ensures all applicable regulations, requirements and technical activities described within the MPM of the AMO are checked on established intervals, as described in the MPM;
- (iii) A record of audit findings and corrective and/or preventive actions;
- (iv) Follow-up procedures to ensure necessary corrective/preventive actions (both immediate and long term) implemented by the Maintenance Organization are effective;
- (v) A record-keeping system to ensure details of evaluation findings, corrective actions, preventive actions and follow-up are recorded, and that the records are retained for two complete evaluation cycles.

Table 4.8—(Intentionally Open)

Table 4.9—Maintenance Procedures Manual Content Specifications

The Operator shall ensure each maintenance organization that performs maintenance for the Operator provides for the use and guidance of relevant maintenance personnel a Maintenance Procedures Manual (MPM), which may be issued in separate parts, that contains the following information:

- (i) A brief description of the organization that includes:
 - (a) A general description of the scope of work authorized under the organization's terms of approval;
 - (b) A general description of the organization's facilities.
- (ii) A description of the organization procedures and quality or inspection system;
- (iii) Names and duties of the responsible personnel;
- (iv) Names and duties of the person or persons whose responsibilities are to ensure that maintenance is carried out in accordance with the MPM;
- (v) A description of the procedures used to establish the competence of maintenance personnel;
- (vi) A description of the methods used for the completion and retention of the Operator's maintenance records, including procedures for retaining back-up records;
- (vii) A description of the procedure for preparing the maintenance release and the circumstances under which the release is to be signed;
- (viii) The process for authorizing personnel to sign the maintenance release and the scope of their authorization;
- (ix) A description of any additional procedures for complying with the Operator's maintenance procedures and requirements;
- (x) A description of the procedures for complying with the service information reporting requirements;
- (xi) A description of the procedure for receiving, amending and distributing within the maintenance organization, all necessary airworthiness data from the type certificate holder or type design organization.



Table 4.10—Tooling and Calibration Program Specifications

The Operator shall ensure each maintenance organization that performs maintenance for the Operator has procedures to control and document the calibration and records of all tools, including personnel-owned tools, and preventing out-of-service and due-for-calibration tools and equipment from being used. The procedures shall include the following elements:

- (i) Calibration date;
- (ii) Identity of individual or vendor that performed calibration or check;
- (iii) Calibration due date;
- (iv) A calibration certificate for each item calibrated by an outside agency;
- (v) Details of adjustments and repairs;
- (vi) Repair history of the tool;
- (vii) The part number and serial number of the standard used to perform the calibration.

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Section 5 — Cabin Operations (CAB)

Applicability

- △ **Section 5** addresses the safety and security requirements associated with the passenger cabin. This section is applicable to an operator that conducts passenger flights with or without cabin crew.
- △ Individual CAB provisions or sub-specifications within a CAB provision that:
 - Begin with a conditional phrase “If the Operator...” are applicable if the Operator meets the condition(s) stated in the phrase.
 - Begin with a conditional phrase “If the Operator conducts passenger flights with or without cabin crew...” are applicable if the Operator conducts passenger flights without cabin crew.
- △ Where an operator outsources the performance of cabin operations functions to external service providers, the operator retains overall responsibility for such functions, and must demonstrate processes for monitoring applicable external service providers in accordance with **ORG 3.5.2** located in Section 1 of this manual.

General Guidance

Definitions of technical terms used in this manual, as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

- Refer to the IATA Cabin Operations Best Practices Guide for practical information and guidance related to cabin safety policies and procedures, (<http://www.iata.org/publications/Pages/cabin-safety-guide.aspx>).

1 Management and Control

1.1–1.5 (Intentionally Open)

1.6 Operations Manual

CAB 1.6.1 If the Operator conducts passenger flights with cabin crew, the Operator shall have an Operations Manual (OM), which may be issued in separate parts, that contains the policies, procedures and other guidance or information necessary for cabin crew members to perform their duties and be in compliance with applicable regulations, laws, rules and Operator standards. The content of the OM shall be in accordance with specifications in **Table 5.1. (GM)**

Auditor Actions

- **Identified/Assessed** cabin OM or, if applicable, separate documents that comprise the OM.
- **Interviewed** responsible management representative(s).
- **Examined** selected sections or parts of the cabin OM.
- **Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of **Practical Manual**.

The complete content of the OM for cabin operations may be issued in more than one document or manual. For example, an operator might choose to issue a practical manual, which would be a controlled document and considered part of the OM. A practical manual, which might be referred to as a quick reference handbook (QRH), typically comprises checklists and other selected information and material taken directly from the OM, and is utilized by cabin crew members in performing onboard duties and procedures during normal, abnormal and/or emergency operations.

- △ Likewise, whereas the operational and training areas of cabin operations specified in **Table 5.1** are all included in the OM, they are typically issued in separate documents. For example, the cabin crew training program (item vii) might be outlined in a training document, while policies, procedures, checklists are specified in operational documents.

2 Training and Qualification

2.1 Training Program

△ **CAB 2.1.1** If the Operator conducts passenger flights with cabin crew, the Operator shall have a cabin crew training program, approved or accepted by the Authority that ensures cabin crew members understand their responsibilities and are competent to perform the duties and functions associated with cabin operations. The cabin crew training program shall also, as minimum, address:

- (i) Initial qualification;
- (ii) Continuing qualification;
- (iii) Re-qualification;
- (iv) If applicable, aircraft transition or conversion;
- (v) If applicable, other specialized training requirements;

Auditor Actions

- △ □ **Identified/Assessed** requirement for specified training/qualification courses applicable to each aircraft type in cabin crew training/evaluation program.
- **Interviewed** responsible manager(s) in cabin operations.
- △ □ **Examined** training/qualification course curriculum (focus: inclusion of applicable training/qualification courses).
- △ □ **Examined** training/qualification records of selected cabin crew members (focus: completion of applicable training/qualification courses).
- **Other Actions** (Specify)

CAB 2.1.2 If the Operator conducts passenger flights with cabin crew, the Operator shall ensure all cabin crew members complete an initial training course:

- (i) As part of the cabin crew qualification process for individuals who have not previously been qualified as a cabin crew member for the Operator;
- (ii) Prior to being assigned duties as a cabin crew member.

Auditor Actions

- **Identified/Assessed** requirements for completion of initial training by cabin crew members.
- **Interviewed** responsible manager(s) in cabin operations.
- **Examined** records of initial training of selected cabin crew members.
- **Other Actions** (Specify)

CAB 2.1.3 If the Operator conducts passenger flights with cabin crew, the Operator shall ensure all cabin crew members complete a recurrent training course once every 12 months in order to remain qualified to perform duties as a cabin crew member. **(GM)**

Auditor Actions

- **Identified/Assessed** requirements for completion of recurrent training by cabin crew members.
- **Interviewed** responsible manager(s) in cabin operations.
- **Examined** records of recurrent training of selected cabin crew members.
- **Other Actions** (Specify)

Guidance

An operator typically has a process that tracks qualification requirements to ensure cabin crew members complete recurrent training in a timely manner to remain qualified.

The nominal cycle for the completion of the recurrent training course by each cabin crew member is 12 months and, during that period, each cabin crew member receives training in the subject areas applicable to the course for that 12-month period.

As a means of ensuring flexibility in the scheduling process, in some regulatory jurisdictions an operator may be permitted to increase the maximum cycle for the completion of recurrent training by cabin crew members up to 15 months with no change to the original training anniversary date of each cabin crew member. Such flexibility, however, would not alter the requirement for a basic 12-month recurrent training cycle for cabin crew members.

In the event a cabin crew member becomes unqualified for any reason (e.g., extended leave of absence), completion of re-qualification training would establish a new anniversary date (superseding the original anniversary date) upon which recurrent training would be based.

CAB 2.1.4 (Intentionally open)

CAB 2.1.5 If the Operator conducts passenger flights with cabin crew, the Operator shall have aircraft type training, which shall be completed by cabin crew members as part of the process to qualify and remain qualified to perform cabin crew duties on each type of aircraft to which they may be assigned. As a minimum, subjects covered under aircraft type training shall include:

- (i) Aircraft systems;
 - (ii) Exit locations and operation;
 - (iii) Emergency equipment locations and operation;
 - (iv) Emergency assignments;
 - (v) Unique features of the aircraft cabin (as applicable for variants of a common aircraft type).
- (GM)**

Auditor Actions

- Identified/Assessed** requirements for completion of aircraft type training by cabin crew members.
- Interviewed** responsible manager(s) in cabin operations.
- Examined** course syllabus for aircraft type training of cabin crew members.
- Examined** records of aircraft type training of selected cabin crew members.
- Other Actions** (Specify)

Guidance

An aircraft type training course for cabin crew members would include the description, locations and operation of an aircraft and its equipment.

Instruction in aircraft systems typically includes:

- Aircraft interior, passenger seats and restraints;
- Crew member seats and restraints;
- Aircraft-specific duties and responsibilities;
- Galley systems;
- Communication systems;
- Lighting systems;
- Oxygen systems.

Instruction on exit locations and operation addresses the types of exits on an aircraft.

Instruction on emergency equipment locations and operation addresses slides, rafts, slide/rafts, ramp slide/rafts, life jackets and other flotation devices.

Sub-specification (iv): The term “emergency assignments” refers to specific duties assigned to cabin crew members during emergency situations.

A process, in accordance with requirements of the Authority, would be utilized to qualify cabin crew members that concurrently operate aircraft of different types or operate variants within one aircraft type. The qualification process would typically address the differences between variants or types.

CAB 2.1.6 (Intentionally open)

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3 Line Operations

3.1 (Intentionally Open)

3.2 Cabin Crew Policies and Procedures

CAB 3.2.1 (Intentionally open)

CAB 3.2.2 If the Operator conducts passenger flights with cabin crew, the Operator shall have procedures to ensure a coordinated and expeditious cabin evacuation during aircraft fueling operations with passengers embarking, on board or disembarking. As a minimum, procedures shall require:

- (i) Cabin exits are designated for rapid deplaning or emergency evacuation, and routes to such exits are unobstructed;
 - (ii) The area outside designated emergency evacuation exits is unobstructed;
 - (iii) One cabin crew member or other qualified person is positioned by the boarding door(s);
 - (iv) Means of communication are established among cabin crew members and with passengers;
 - (v) A suitable method of communication is established between qualified persons in a position to monitor passenger safety and personnel that have responsibility for fueling operations.
- (GM)**

Auditor Actions

- Identified** the specified procedures for cabin evacuation during aircraft fueling operations with passengers embarking, on board or disembarking
- Interviewed** responsible manager(s) in cabin operations.
- Interviewed** cabin crew personnel.
- Other Actions** (Specify)

△

Guidance

During fueling operations with passengers on board the aircraft, the designation of exits for rapid deplaning or evacuation takes into account various factors, which would typically include:

- Aircraft type (e.g. some aircraft types might require the designation of over-wing exits for evacuation);
- Number of cabin crew members on board;
- The method being utilized for passenger boarding and/or deplaning (e.g. boarding bridge, air stairs);
- Exterior obstructions (e.g. catering vehicle) that might render an exit unusable for an emergency evacuation;
- Interior obstructions (e.g. catering trolley) that might block the route to one or more emergency evacuation exits.

Cabin crew procedures ensure a method of communication is established.

- Among cabin crew members positioned throughout the cabin for the purpose of coordination should a passenger evacuation be required (when more than one cabin crew member is required to be onboard);
- Between the cabin crew and passengers (one way) for the purpose of providing instructions should a passenger evacuation be required;
- Between the cabin crew and the flight crew (when the flight crew is onboard) for the purpose of ensuring notification when fueling operations are in progress and when a passenger evacuation is required;

- Between the cabin crew and the flight crew and/or ground handling personnel for the purpose of ensuring notification when fueling operations must be discontinued for any reason.

CAB 3.2.3–3.2.7 (Intentionally open)

CAB 3.2.8 If the Operator conducts passenger flights with or without cabin crew, the Operator shall have procedures for providing passengers with instructions for appropriate action in the case of an in-flight emergency situation.

Auditor Actions

- Identified** procedures for providing passengers with instructions for in-flight emergency situations.
- Interviewed** responsible manager(s) in cabin operations.
- Interviewed** cabin crew personnel.
- Other Actions** (Specify)

△

Table 5.1—Operations Manual Content Specifications

The content of the Operations Manual shall address the following areas of cabin operations:

- (i) Compliance or conformity with:
 - (a) Applicable laws, regulations and rules;
 - (b) Standard operating procedures for each phase of flight.
- (ii) Administration of first aid, to include guidelines for:
 - (a) Life threatening medical emergencies;
 - (b) Cardiopulmonary resuscitation (CPR);
 - (c) Injuries and illnesses;
 - (d) Use of medical equipment (e.g. Automatic External Defibrillator, if applicable).
- (iii) Response to emergency, abnormal and suspected security situations:
 - (a) Aircraft emergency evacuation;
 - (b) Cabin decompression, if applicable;
 - (c) Onboard fires, smoke and fumes;
 - (d) Emergency landing, ditching;
 - (e) Leakage or spillage of suspected dangerous goods;
 - (f) Suspected bomb or explosives, least risk bomb locations (specific to aircraft type);
 - (g) Cabin search;
 - (h) Hijacking or unlawful intervention.
- (iv) Use of cabin systems and equipment, to include malfunctions:
 - (a) Oxygen systems, if applicable;
 - (b) Communication systems;
 - (c) Entry and exit doors;
 - (d) Lifesaving equipment;
- (v) Dangerous goods manual or parts relevant to the cabin crew, to include:
 - (a) Dangerous goods prohibited in passenger and crew baggage;
 - (b) Information/instructions for dangerous goods permitted in passenger and crew baggage;
 - (c) Action to be taken in the event of an emergency.
- (vi) Use of emergency, survival equipment
- (vii) Cabin crew training program
 - (a) Abnormal and emergency situations, emergency evacuation;
 - (b) Use of emergency and lifesaving equipment;
 - (c) Lack of oxygen, loss of pressurization (as applicable);
 - (d) Other cabin crew member assignments and functions;
 - (e) Dangerous goods;
 - (f) Human performance.
- (viii) Limitations pertaining to flight time, flight duty periods and rest periods.

Section 6 — Ground Handling Operations (GRH)

Applicability

Section 6 addresses functions within the scope of ground handling operations and is applicable to an operator that conducts passenger, cargo and/or combi (combined cargo and passenger) aircraft operations.

- △ Individual GRH provisions or sub-specifications within GRH provision that:
- Begin with a conditional phrase (“If the Operator...”) are applicable if the operator meets the condition(s) stated in the phrase.
 - Do not begin with a conditional phrase are applicable unless determined otherwise by the Auditor.

Functions within the scope of ground handling operations include:

- Passenger handling
- Baggage handling
- Aircraft handling and loading
- Aircraft ground movement
- Load control
- Aircraft fueling
- Aircraft de-/anti-icing

In this section, non-revenue cargo and mail are addressed in the same way as revenue cargo for the purposes of handling, loading, securing and transporting. COMAT is non-revenue cargo.

- For the purpose of addressing cargo in this section, mail is considered to be an item of cargo. Therefore, any reference to cargo also includes mail.

Where an operator outsources the performance of functions within the scope of ground handling operations to external service providers, the operator retains overall responsibility for such functions, and must demonstrate processes for monitoring the applicable external service providers in accordance with [ORG 3.5.2](#) located in Section 1 of this manual.

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General Guidance

Definitions of technical terms used in this manual, as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

- △ Procedures used in ground operations are defined in the IATA Ground Operations Manual (IGOM), the IATA Airport Handling Manual (AHM), IATA Dangerous Goods Regulations (DGR) and in other relevant IATA publications.
- Due to revision cycle differences, the IATA documents cited above are typically revised at various times during the effective period of an ISSM edition. Accordingly, when an IATA document is revised, it could render an existing reference to specific information in an IATA document to be in error. In such case, the revised IATA document would have to be searched to find the specific information referenced.

1 Management and Control

1.1–1.5 (Intentionally Open)

1.6 Operational Manuals

GRH 1.6.1 The Operator shall have an Operations Manual, which may be issued in separate parts, that contains the operational policies, processes, procedures and other information necessary for ground handling personnel to perform their duties and be in compliance with applicable regulations, laws, rules and standards of the Operator. **(GM)**

Auditor Actions

- Identified/Assessed** ground handling OM or, if applicable, separate documents that comprise the OM.
- Interviewed** responsible management representative(s).
- △ **Examined** selected sections or parts of the ground handling OM (focus: policies, processes, procedures used by ground handling personnel are included).
- △ **Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [Operations Manual \(OM\)](#).

An OM typically includes guidance that addresses areas generic to all functions within the scope of ground handling operations, as well as parts of the manual that are specific to individual operational functions.

Because the scope of ground handling operations is broad and varies by operator, rather than publishing one OM just for ground handling, a smaller operator might choose to incorporate the relevant information into a larger, comprehensive OM.

An operator could also choose to issue the information in separate documents that are each specific to the various ground handling operational functions (e.g. passenger handling, baggage handling, aircraft handling). Each individual document would typically contain generic guidance that is applicable to all ground handling operational functions (e.g., organizational policies, general definitions), as well as guidance that is specific to the particular ground handling function or office location (e.g., process descriptions, standard operating procedures, references to the appropriate regulations and IATA manuals).

The IGOM contains a core set of operations procedures that may be used by operators in the conduct of ground handling operations.

If an operator has external organizations conduct ground handling operations functions, such operator would then be expected to have a monitoring and control process to ensure each external organization either uses the OM of the operator or has its own published OM that fulfills operational safety, security and quality requirements of the operator.

2 Training and Qualification

2.1 Training Program

GRH 2.1.1 The Operator shall have a process to ensure personnel who perform operational duties in functions within the scope of ground handling operations for the Operator, to include personnel of external service providers, complete:

- △ (i) *Initial training* prior to being assigned to perform such operational duties;
- (ii) *Recurrent training* on a frequency in accordance with requirements of the regulatory authority but *not less than once during every 36-month period* except recurrent training in dangerous goods as specified in [GRH 2.2.1](#) or [GRH 2.2.2. \(GM\)](#)

Auditor Actions

- △ **Identified/Assessed** training program for ground handling personnel (focus: ensures completion of initial/recurrent training for personnel in all ground handling functions; includes processes that ensure personnel of external service providers complete initial/recurrent training).
- △ **Interviewed** responsible manager(s) in ground handling operations.
- △ **Examined** selected initial/recurrent course curricula/syllabi (focus: includes initial and recurrent training programs for all personnel that perform ground handling duties/functions).
- △ **Examined** initial and recurrent training records of selected personnel (focus: completion of initial and recurrent training).
- △ **Other Actions** (Specify).

Guidance

- Refer to the Applicability box at the beginning of this section for the functions within the scope of ground handling operations.
Requirements for initial and recurrent training apply to all operational ground handling personnel who perform duties within the scope of ground handling operations.

2.2 Program Elements

- △ **GRH 2.2.1** If the Operator transports dangerous goods, the Operator shall have a process to ensure ground handling personnel receive dangerous goods training, to include *initial training* and *recurrent training*, on a frequency in accordance with requirements of the regulatory authority, but *not less than once within 24 months of previous training in dangerous goods*. Such training shall be completed by personnel that perform operational duties in the following functions within the scope of ground handling operations:
 - (i) Passenger handling;
 - (ii) Baggage handling;
 - (iii) Aircraft loading;
 - (iv) Load control. **(GM)**

Auditor Actions

- △ □ **Identified/Assessed** dangerous goods training program (focus: defines DG training requirements for all cargo handling personnel based on specific assigned responsibilities/duty functions).
- △ □ **Interviewed** responsible manager(s) in ground handling operations.
- △ □ **Examined** applicable initial/recurrent dangerous goods training curricula and syllabi (focus: subject areas appropriate for personnel based on specific responsibilities/duty functions).
- △ □ **Examined** training records of selected personnel (focus: completion of required training as appropriate for assigned responsibilities/duty functions).
- △ □ **Other Actions** (Specify)

Guidance

- △ Recurrent training in dangerous goods is completed within a validity period that expires 24 months from the previous training to ensure knowledge is current, unless a shorter period is defined by a competent authority. However, when such recurrent training is completed within the final 3 months of the 24-month validity period, the new validity period may extend from the month on which the recurrent training was completed until 24 months from the expiry month of the current validity period. If such recurrent training is completed prior to the final three months of the validity period, the new validity period would extend 24 months from the month the recurrent training was completed.

The curriculum for dangerous goods training for ground handling personnel will vary depending on specific responsibilities and duty function(s), but will typically address:

- General philosophy;
- Limitations;
- List of dangerous goods;
- Labeling and marking;
- Recognition of undeclared dangerous goods;
- Storage and loading procedures;
- Flight crew notification;
- Provisions for passengers and crew;
- Emergency procedures.

△ Refer to DGR 1.5 (Table 1.5.A, Minimum Requirements for Training Curricula) and/or DGR Appendix H for detailed guidance that addresses dangerous goods training and subjects applicable to specific ground handling functions.

GRH 2.2.2 If the Operator does *not* transport dangerous goods, the Operator shall have a process to ensure ground handling personnel receive dangerous goods training, to include *initial training* and *recurrent training* on a frequency as specified in **GRH 2.2.1**. Such training shall be completed by personnel that perform operational duties in the following functions within the scope of ground handling operations:

- (i) Passenger handling;
- (ii) Baggage handling;
- (iii) Aircraft loading;
- (iv) Load control. **(GM)**

Auditor Actions

- △ **Identified/Assessed** dangerous goods training program: (focus: defines DG training requirements for all cargo handling personnel based on specific assigned responsibilities/duty functions).
- △ **Interviewed** responsible manager(s) in ground handling operations.
- △ **Examined** selected initial/recurrent training curricula/syllabi (focus: subject areas appropriate for personnel based on specific responsibilities/duty functions).
- △ **Examined** training records of selected personnel (focus: completion of required training as appropriate for assigned responsibilities/duty functions).
- △ **Other Actions** (Specify)

Guidance

When an operator does not transport dangerous goods (i.e. a “no-carry” operator), dangerous goods training is still required for ground handling personnel to ensure prohibited dangerous goods are recognized and are not loaded onto an aircraft.

Dangerous goods training would be structured to provide the requisite knowledge to permit ground handling personnel to recognize prohibited dangerous goods (whether labeled or not labeled), ensure such dangerous goods are not inadvertently loaded on an aircraft and apply emergency action in the event of contamination or a spill.

△ The curriculum for dangerous goods training for ground handling personnel will vary depending on specific responsibilities and duty function(s), but will typically address the following subject areas:

- General philosophy;
- Limitations;
- Labeling and marking;
- Recognition of undeclared dangerous goods;
- Provisions for passengers and crew;
- Emergency procedures.

△ Refer to DGR 1.5 (Table 1.5.B, Minimum Requirements for Training Curricula for “No-carry” Operators) and/or DGR Appendix H for detailed guidance that addresses dangerous goods training and subjects applicable to specific ground handling functions.

△ 3 Ground Handling Operations

3.1 (Intentionally Open)

3.2 Airside Operations

GRH 3.2.1 (Intentionally open)

GRH 3.2.2 The Operator shall have safety procedures that are implemented during the conduct of all of its airside operational activities, to include, but not limited to, aircraft arrival and departure ground movement operations. **(GM)**

Auditor Actions

- Identified/Assessed** requirement for implementation of safety procedures in the conduct of airside operational activities.
- Interviewed** responsible manager(s) in ground handling operations.
- Other Actions** (Specify)

Guidance

Safety procedures typically address:

- The use of internationally recognized marshalling signals for communication among ground personnel for the movement of ground support equipment;
- Signals used between ground personnel and the flight crew;
- Verbal phraseology used between ground personnel and the flight crew;
- Standard operating procedures in accordance with recommendations of the aircraft manufacturer(s) for aircraft pushback, power-back, power-out and/or tow-out, as applicable, for departure from the parking position, and for aircraft power-in and/or tow-in, as applicable for arrival into the parking position;
- If applicable, protection of passengers moving between the aircraft and the terminal building where the apron is utilized for passenger embarkation and disembarkation;
- Foreign object damage (FOD) prevention for apron areas that have aircraft parking or movement operations;
- Airside fire safety;
- The spillage of fluids and other materials in airside areas;
- An airside severe weather plan.

Refer to IGOM Chapters 3 and 4 for safety procedures used in ground operations.

3.3 Load Control

GRH 3.3.1 The Operator shall ensure a Load Control system is in place that provides for:

- (i) Aircraft weight and balance conditions that are correct and within limits;
- (ii) Aircraft loaded in accordance with applicable regulations and specific loading instructions for the flight;
- (iii) Dissemination of dangerous goods and other special load information applicable to each flight;
- (iv) Information, to include last minute changes, that is in agreement with the actual load on the aircraft and presented on a final load sheet. **(GM)**

Auditor Actions

- Identified/Assessed** Load Control system.
- Interviewed** responsible manager(s) in load control operations.
- Examined** checklists/procedures used in the load control process.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [Load](#), [Load Control](#), [Special Load and Weight](#) and [Balance Manual \(W&BM\)](#).

A load planning system typically entails, as a minimum:

- Assemblage of all data relating to the aircraft load (originating and en route stations);
- Planning of the load for ready accessibility;
- Planning of special loads according to restrictions, maximum quantities, separation and segregation requirements;
- Consideration of center of gravity parameters affecting aircraft fuel consumption.

Guidance may be found in AHM 551 and 590.

3.4 Aircraft Loading

GRH 3.4.1 The Operator shall ensure procedures are in place that provide for aircraft to be loaded:

- (i) In accordance with written loading instructions;
- (ii) In a manner that satisfies weight and balance requirements. **(GM)**

Auditor Actions

- Identified/Assessed** aircraft loading procedures.
- Interviewed** responsible manager(s) in ground handling operations.
- Examined** examples of documented aircraft loading instructions.
- Interviewed** personnel that perform aircraft loading.
- Other Actions** (Specify)

Guidance

Refer to IGOM 4.5.9, 5.6.1 and 5.6.2, as well as AHM 514 and 590 for additional guidance.

GRH 3.4.2 (Intentionally open)

GRH 3.4.3 If the Operator transports dangerous goods as cargo, the Operator shall ensure procedures are in place for the loading and securing of dangerous goods on an aircraft in a manner that:

- (i) Prevents damage to packages and containers during aircraft loading and unloading;
- (ii) Provides for separation and segregation in accordance with applicable requirements;
- (iii) Prevents any movement in the aircraft. **(GM)**

Auditor Actions

- Identified/Assessed** procedures for loading/securing dangerous goods on aircraft.
- Interviewed** responsible manager(s) in ground handling operations.
- Interviewed** personnel that perform aircraft loading.
- Other Actions** (Specify)

Guidance

Refer to IGOM 4.5.1 and DGR 9.3 for guidance that addresses the loading and securing of dangerous goods.

△ 4 Special Aircraft Ground Handling Operations

4.1 Aircraft Fueling

GRH 4.1.1 The Operator shall have a process to ensure fuel suppliers are maintaining standards of fuel safety and quality acceptable to the Operator and fuel delivered and loaded onto aircraft is:

- (i) Of the correct grade and specification for each aircraft type;
- (ii) Free from contamination. **(GM)**

Auditor Actions

- Identified/Assessed** process for monitoring of fuel quality at all locations where aircraft are refueled.
- Interviewed** responsible manager(s) in ground handling operations.
- Examined** selected quality control inspection reports (focus: fuel supply quality management).
- Other Actions** (Specify)

Guidance

The intent of this standard is to ensure fuel is stored, handled and serviced in accordance with accepted standards.

Approved fuel specifications are contained in each aircraft manual.

To ensure fuel corresponds to the specifications and grade of product necessary for the applicable aircraft type(s), a control process is typically in place at each location where the operator has aircraft fueling operations. Such process ensures the existence of periodic inspections of critical aspects of the fuel supply system at each applicable location, to include, as a minimum:

- Fuel facilities;
- Safety and quality procedures;
- Performance levels of personnel.

Processes for ensuring fuel is of the correct grade and free of contamination may be documented in maintenance, ground operations or flight operations manuals, or in a combination thereof. If the Operator uses biofuels, additional procedures would typically address the related specific requirements (i.e. dedicated infrastructures and blending requirements).

Additional guidance may be found in the IFQP (IATA Fuel Quality Pool) Quality and Safety Procedures, and in the AEA Recommendations for De-icing/Anti-icing of Aircraft on the Ground.

4.2 Aircraft De-/Anti-icing

△ **GRH 4.2.1** If the Operator conducts flights from any airport when conditions are conducive to ground aircraft icing, the Operator shall have a De-/Anti-icing Program, which, if applicable, is approved by the Authority and, as a minimum:

- (i) Ensures adherence to the Clean Aircraft Concept;
- (ii) Defines responsibilities within the Program;
- (iii) Addresses applicable locations within the route network;
- (iv) Defines areas of responsibility;
- (v) Specifies technical and operational requirements;
- (vi) Specifies training and qualification requirements;
- (vii) Is applicable to external service providers that perform de-/anti-icing functions for the Operator. **(GM)**

Note: This ISARP is applicable to both commercial and non-commercial operations.

Auditor Actions

- Identified/Assessed** approved aircraft de-/anti-icing program.
- Interviewed** responsible manager(s) in ground handling operations.
- Examined** de-/anti-icing program at selected airports.
- Examined** reports that detail past de-/anti-icing operations at selected airports.
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definitions of [De-/Anti-icing Program](#) and [Clean Aircraft Concept](#).

A de-/anti-icing program would address not only commercial operations at an applicable airport but, if applicable, non-commercial operations as well (e.g. positioning flights, test flights, training flights).

The scope and details of a de-/anti-icing program would typically be commensurate with the frequency and complexity of operations at airports with the potential for ground icing conditions.

Additional guidance may be found in ICAO Doc 9640-AN/940, Manual of Aircraft Ground

De-icing/Anti-icing Operations, Chapter 7, and in SAE AS6285, Aircraft Ground Deicing/Anti-Icing Processes. The latter is used as the basis for inspections conducted under the IATA De-Icing/Anti-Icing Quality Control Pool (DAQCP).

Section 7 — Cargo Operations (CGO)

Applicability

[Section 7](#) addresses functions within the scope of cargo handling operations, and is applicable to an operator that transports revenue or non-revenue cargo and/or mail. COMAT (Company Material) is non-revenue cargo.

In this section, non-revenue cargo and mail are addressed in the same way as revenue cargo for the purposes of handling, loading, securing and transporting.

△ For the purpose of addressing cargo in this section, mail is considered to be an item of cargo. Therefore, any reference to cargo also includes mail.

△ Individual CGO provisions or sub-specifications within CGO provisions that:

- • Do not begin with a conditional phrase are applicable unless determined otherwise by the Auditor.
- Begin with a conditional phrase (“If the Operator...”) are applicable if the Operator meets the condition(s) stated in the phrase.

Functions within the scope of cargo handling operations include:

- Cargo and mail acceptance;
- Cargo and mail handling;
- ULD loading/build-up;
- Application of required security measures.

△ Certain operators, particularly all-cargo operators, might have ground handling operations functions performed by cargo operations personnel (e.g. aircraft loading, airside operations, load control). Where this situation exists, the operator must be in conformity with the ISARPs contained in [Section 6](#), Ground Handling Operations (GRH), that are applicable to the ground handling operations functions performed by cargo operations personnel.

Where an operator outsources the performance of functions within the scope of cargo operations to external service providers, the operator retains overall responsibility for such functions, and must demonstrate processes for monitoring applicable external service providers in accordance with [ORG 3.5.2](#) located in Section 1 of this manual.

General Guidance

△ Definitions of technical terms used in this ISSM [Section 7](#), as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

1 Management and Control

1.1–1.5 (Intentionally Open)

1.6 Operational Manuals

CGO 1.6.1 If the Operator transports revenue or non-revenue cargo, the Operator shall have an Operations Manual (OM), which may be issued in separate parts, that contains the operational policies, processes, procedures and other information necessary to ensure compliance with applicable regulations, laws, rules and standards of the Operator. The content of the OM shall contain standards and guidance that addresses the acceptance, handling, loading, securing and transporting of cargo as specified in [Table 7.1](#). **(GM)**

Auditor Actions

- Identified/Assessed** cargo OM or, if applicable, separate documents that comprise the OM.
- Interviewed** responsible management representative(s).
- Identified** standards and guidance in the OM that address acceptance, handling, loading, securing and transporting of cargo as per [Table 7.1](#).
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of [High-risk Cargo](#).

This provision is applicable to an operator that transports non-revenue cargo. COMAT is non-revenue cargo.

An OM may include guidance that addresses areas generic to all functions within the scope of cargo operations; other parts of the manual may be specific to individual operational functions.

Because the scope of cargo operations is broad and varies by operator, rather than publishing a separate OM dedicated to cargo operations (e.g. a Cargo Operations Manual), an operator might choose to publish all guidance for cargo operations in a section of an OM that addresses other types of operations (e.g. maintenance management manual for an operator that transports only COMAT).

An operator could also choose to issue the information in separate documents that are each specific to the various cargo operations functions (e.g., safety and security, acceptance, physical handling, documentation, identification, storage and stowage, preparation for flight). Each individual document would typically contain generic guidance that is applicable to all cargo operations functions (e.g., organizational policies, general definitions), as well as guidance that is specific to the particular function or office location (e.g., process descriptions, standard operating procedures, references to the appropriate regulations and IATA manuals).

If an operator has external organizations conduct cargo operations functions, such an operator would then be expected to have a monitoring and control process to ensure each external organization either uses the OM of the operator or has its own published operations manual that fulfills operational safety, security and quality requirements of the operator.

2 Training and Qualification

2.1 Training Program

CGO 2.1.1 If the Operator transports revenue or non-revenue cargo and/or mail, the Operator shall have a process to ensure personnel that perform operational duties in functions within the scope of cargo (revenue or non-revenue) operations for the Operator, to include personnel of external service providers, complete:

- *Initial training prior to being assigned to perform such operational duties;*
- *Recurrent training on a frequency in accordance with requirements of the regulatory authority but not less than once during every 36-month period, except for recurrent training in dangerous goods as specified in [CGO 2.2.1](#), [CGO 2.2.2](#). (GM)*

Auditor Actions

- Identified/Assessed** processes for ensuring completion of training by cargo operations personnel (focus: includes personnel in all cargo operations functions; includes external service providers).
- Interviewed** responsible manager(s) in cargo operations.
- Examined** selected initial/recurrent course curricula/syllabi (focus: initial and recurrent training programs address all cargo operations functions).
- Examined** initial/recurrent training records of selected personnel (focus: completion of initial and recurrent training).
- Other Actions** (Specify)

Guidance

Refer to the Applicability box at the beginning of this section for the functions within the scope of cargo operations.

Requirements for initial and recurrent training apply to all personnel that perform duties within the scope of cargo handling operations for an operator, both at the main base and all other locations.

2.2 Program Elements

CGO 2.2.1 If the Operator transports dangerous goods as revenue or non-revenue cargo, the Operator shall have a process to ensure personnel assigned the responsibility for accepting dangerous goods complete dangerous goods training, to include *initial training* and *recurrent training*, on a frequency in accordance with requirements of the regulatory authority, but *not less than once within 24 months of previous training in dangerous goods*. Such training shall be completed by personnel that perform operational duties in the following functions within the scope of cargo handling operations:

- (i) Acceptance of cargo;
- (ii) Handling, storage and build-up of cargo;
- (iii) Provision of required information to load planning. **(GM)**

Auditor Actions

- Identified/Assessed** dangerous goods training program: (focus: defines DG training requirements for all cargo handling personnel based on specific assigned responsibilities/duty functions).
- Interviewed** responsible manager(s) in cargo operations.
- Examined** applicable initial/recurrent dangerous goods training curricula and syllabi (focus: subject areas appropriate for personnel based on specific responsibilities/duty functions).
- Examined** initial/recurrent dangerous goods training records of selected personnel (focus: completion of required training as appropriate for assigned responsibilities/duty functions).
- Other Actions** (Specify)

Guidance

Recurrent training in dangerous goods is completed within a validity period that expires 24 months from the previous training to ensure knowledge is current, unless a shorter period is defined by a competent authority. However, when such recurrent training is completed within the final 3 months of the 24-month validity period, the new validity period may extend from the month on which the recurrent training was completed until 24 months from the expiry month of the current validity period. If such recurrent training is completed *prior* to the final three months of the validity period, the new validity period would extend 24 months from the month the recurrent training was completed.

The curriculum for dangerous goods training for cargo operations personnel will vary depending on specific responsibilities and duty function(s), but will typically address the following subject areas:

- General philosophy;
- Limitations;
- General requirements for shippers;
- Classification;
- List of dangerous goods;
- General packing requirements;
- Packing instructions;
- Labeling and marking;
- Shipper's declaration and other relevant documentation;
- Acceptance procedures;
- Recognition of undeclared dangerous goods;

- Storage and loading procedures;
- Flight crew notification;
- Provisions for passengers and/or crew;
- Emergency procedures.

Refer to DGR 1.5 (Table 1.5.A, Minimum Requirements for Training Curricula), for guidance that addresses dangerous goods training and subjects applicable to specific cargo handling functions.

△ **CGO 2.2.2** If the Operator transports revenue or non-revenue cargo, but not transport dangerous goods, the Operator shall have a process to ensure personnel assigned the responsibility for accepting or handling any cargo complete dangerous goods training, to include *initial training* and *recurrent training*, on a frequency in accordance with **CGO 2.2.1. (GM)**

Auditor Actions

- **Identified/Assessed** dangerous goods training program: (focus: defines DG training requirements for personnel with cargo acceptance/handling responsibilities).
- **Interviewed** responsible manager(s) in cargo operations.
- **Examined** selected initial/recurrent dangerous goods training curricula/syllabi (focus: subject areas appropriate for personnel with cargo acceptance/handling responsibilities).
- **Examined** initial/recurrent training records of selected cargo operations personnel (focus: completion of required training as appropriate for assigned responsibilities/duty functions).
- **Other Actions** (Specify)

Guidance

When an operator does not transport dangerous goods (i.e. a “no-carry” operator), dangerous goods training is still required for cargo operations personnel to ensure declared and undeclared dangerous goods are recognized and prohibited from being carried or loaded onto an aircraft.

Dangerous goods training is structured to provide the requisite knowledge to permit cargo operations personnel to recognize dangerous goods, whether labeled or not labeled, and to prevent such dangerous goods from being inadvertently accepted and/or planned for loading into an aircraft.

⊗ The curriculum for dangerous goods training for cargo handling personnel will vary depending on specific responsibilities and duty function(s), but will typically address the following subject areas:

- General philosophy;
- Limitations;
- Labeling and marking;
- For personnel that accept cargo, shipper's declarations and other relevant documentation;
- Recognition of undeclared dangerous goods;
- Provisions for passengers and/or crew;
- Emergency procedures.

Refer to DGR 1.5 (Table 1.5.B, Minimum Requirements for Training Curricula for “No-carry” Operators), for guidance that addresses dangerous goods training and subjects applicable to specific cargo handling functions.

3 Acceptance and Handling

3.1 General Cargo

- △ **CGO 3.1.1** If the Operator transports revenue or non-revenue cargo, the Operator shall have a process to ensure such shipments accepted for transport:
- △
 - (i) If revenue cargo, are in compliance with standards in the OM as specified in [CGO 1.6.1](#);
 - (ii) If interline cargo, are in compliance with IATA interline cargo requirements;
 - (iii) If non-revenue cargo, are in compliance with the OM or equivalent document as specified in [CGO 1.6.1](#). **(GM)**

Auditor Actions

- △ **Identified/Assessed** process that ensures cargo shipments accepted for transport are in compliance with applicable requirements.
- △ **Interviewed** responsible manager(s) in cargo operations.
- ⊗
- △ **Examined** selected quality control inspection reports.
- ⊗
- ⊗
- △ **Other Actions** (Specify)

Guidance

- ⊗
- △ Cargo is accepted under the terms of the OM, which typically specifies procedures to ensure acceptance personnel verify the cargo (revenue or non-revenue) has been packed in a manner:
 - For safe transport with ordinary care in handling;
 - To preclude injury or damage to any person, cargo or property.
- △ Also, interline cargo typically complies with the applicable requirements of the receiving operator(s). Refer to the IATA Cargo Services Conference Resolution 660 for guidance pertaining to interline cargo.

3.2 Dangerous Goods

- △ **CGO 3.2.1** If the Operator transports dangerous goods as revenue or non-revenue cargo, the Operator shall have a Dangerous Goods Acceptance Checklist that:
- △
 - (i) Reflects applicable requirements contained in the current dangerous goods regulations.
 - (ii) Once completed, contains information that identifies the person(s) that performed the acceptance check. **(GM)**

Auditor Actions

- △ **Identified/Assessed** dangerous goods acceptance checklist (focus: contains DGR requirements, information that identifies person that performed acceptance check).
- △ **Interviewed** responsible manager(s) in cargo operations
- ⊗ **Examined** process(es) for development/maintenance of dangerous goods acceptance checklist.
- ⊗
- △ **Other Actions** (Specify)

Guidance

- △ Sample checklists for non-radioactive shipments, radioactive shipments and dry ice (carbon dioxide, solid) are found in the back of the DGR.
Refer to DGR 9.1.3 for guidance that addresses the Dangerous Goods Acceptance Checklist.

Table 7.1—Operations Manual Content Specifications

The content of the Operations Manual shall contain standards and guidance that address the acceptance and handling of revenue cargo, to include, as applicable to type(s) of shipments transported by the Operator:

- (i) Compliance or conformity with:
 - (a) Applicable laws, regulations and rules, including civil aviation cargo security programs;
 - (b) Industry standard operating procedures for each aspect of cargo acceptance and handling.
- (ii) Response to abnormal or emergency situations:
 - (a) Leakage or spillage of suspected dangerous goods;
 - (b) Suspected bomb or explosives;
 - (c) Damaged or leaking cargo;
 - (d) Other emergencies.
- (iii) Cargo acceptance and handling, including conditions of carriage:
 - (a) General cargo;
 - (b) Security requirements;
 - (c) Dangerous goods;
 - (d) Live animals;
 - (e) Other special cargo:
 - Perishable cargo;
 - Human remains;
 - Outsized and heavy cargo;
 - Fragile goods.
 - (f) Mail;
 - (g) Valuable cargo;
- (iv) Requirements associated with the transport of ULDs.

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Section 8 — Security Management (SEC)

Applicability

- △ [Section 8](#) addresses the management of operational security in accordance with requirements of an Air Operator Security Program (AOSP). This section is applicable to all operators.

Individual provisions or sub-specifications within a provision that:

- Do not begin with a conditional phrase are applicable to all operators unless determined otherwise by the Auditor.
- Begin with a conditional phrase (“If the Operator...”) are applicable if the operator meets the condition(s) stated in the phrase.

Where operational security functions are outsourced to external service providers, an operator retains responsibility for the conduct of such functions and will have processes to monitor applicable external service providers in accordance with [ORG 3.5.2](#) located in Section 1 of this manual to ensure requirements that affect the security of operations are being fulfilled.

General Guidance

- △ Definitions of technical terms used in this [ISSM Section 8](#), as well as the meaning of abbreviations and acronyms, are found in the IATA Reference Manual for Audit Programs (IRM).

1 Management and Control

△ 1.1 Management System

△ 1.2 Air Operator Security Program (AOSP)

- △ **SEC 1.2.1** The Operator shall have a formal Air Operator Security Program (AOSP) that includes:
- (i) The requirements of the civil aviation security program of the State of the Operator (hereinafter, the State);
 - (ii) Applicable requirements of other states where operations are conducted;
 - (iii) The security standards of the Operator. **(GM)**

Auditor Actions

- △
- Identified/Assessed** the AOSP.
 - Examined** operator-specific security requirements and standards.
 - Interviewed** responsible manager(s).
 - Other Actions** (Specify)

Guidance

- △ Refer to the IRM for the definitions of [Act of Unlawful Interference](#), [State](#), [State Acceptance](#) and [State Approval](#).
- △ An operator is required to have an AOSP in order to:
- Protect customers, personnel and assets from any act of unlawful interference;
 - Comply with regulatory requirements.
- The name of an operator’s security program may vary based on the regulatory jurisdiction. Examples of typical alternative names to AOSP include ACSP (Air Carrier Security Program) and ASP (Airline Security Program).
- △ The Security Program may be structured in accordance with the template provided by the State of the Operator or other relevant state (where operations are conducted).

- △ The State may issue a standard security program with which all operators must comply (operators may apply for exemptions or amendments, as applicable). In such cases, the standard security program of the State is typically recognized as the AOSP of the operator. The AOSP typically also includes other company manuals and procedures that provide carrier-specific details.
- A standard security program may be acceptable in meeting security requirements of other states, or the operator may be required to submit individual security programs tailored to meet requirements of other states. An operator must satisfy the security requirements of all applicable states for the purpose of meeting the intent of this standard.
- The Security Program is normally approved or accepted (i.e. no notice of deficiency or equivalent is issued) by the relevant state.
- ⊗

1.3–1.6 (Intentionally Open)

1.7 Security Manual

- △ **SEC 1.7.1** The Operator shall have a Security Manual or equivalent document that provides guidance for the implementation of the AOSP to ensure applicable personnel have the direction necessary to implement security measures. **(GM)**

Auditor Actions

- Identified/Assessed** security manual, including separate documents where applicable.
- Examined** selected contents of the security manual.
- Interviewed** responsible manager(s).
- Other Actions** (Specify)

Guidance

An operator may have more than one security manual (e.g. where security responsibilities are delegated to various departments or by geographic locations, each with distinct security requirements). All documents comprising an operator's security manual (or equivalent document) are considered controlled documents.

The content of the security manual (or equivalent document) typically addresses the following subject areas, as applicable to the operator's type(s) of operations conducted and specific security requirements:

- △
 - Definitions of technical terms associated with the AOSP;
 - Authority and applicability of the AOSP;
 - Recruitment and training of operational security personnel;
 - Security threat assessment;
 - Movement of aircraft and evacuation of passengers following bomb alerts;
 - Security crisis management plans at airports served;
 - Scrutiny of electronic items in the aircraft cabin and in checked baggage (based on threat level);
 - Segregation of departing passengers in airport facilities;
 - Public awareness of security;
 - Detection equipment and technology;
 - Passenger risk assessment and enhanced screening;
 - Security of checked baggage;
 - Screening of checked baggage;
 - Security of cargo, express parcels and mail;
 - One-stop security;
 - Measures for addressing unruly passengers.
- △

2 Training and Qualification

2.1 Training Program

SEC 2.1.1 The Operator shall have a security training program that includes initial and recurrent training, and is in accordance with requirements of all applicable state(s). The security training program shall have a balanced curriculum of theoretical and practical training to ensure:

- (i) Personnel, employed by or under the control of the Operator who implement security controls, have the competence to perform their duties;
- (ii) Flight and cabin crew members and frontline aircraft ground handling and cargo handling personnel are able to act in the most appropriate manner to minimize the consequences of acts of unlawful interference and/or disruptive passenger behavior. **(GM)**

Note: *Applicable personnel shall complete initial security training prior to being assigned to operational duties.*

Auditor Actions

- Identified/Assessed** security training program (focus: approval/acceptance by State; meets applicable requirements of other states).
- Interviewed** responsible manager(s).
- Examined** selected security training program curricula (focus: contain theoretical and practical training elements).
- Examined** selected ground/cargo handling personnel training records (focus: completion of initial/recurrent security training).
- Other Actions** (Specify)

Guidance

Training may be sub-divided for line managers/supervisors, aircrew, ramp workers, cargo personnel and other personnel who are directly involved in the implementation of security measures and thereby require an awareness of obligations to the AOSP.

The security training program is typically integrated into the normal training curriculum for operational personnel, and need not be stand-alone training.

The proportion of theoretical and practical training is typically based on requirements of the State. For certain functions or duties there may not be a practical component.

The scope of recurrent security training, as well as the specific subject matter included, may vary in accordance with requirements of the applicable authorities and the security policy of the operator.

3 Security Operations

3.1–3.3 (Intentionally Open)

3.4 Passengers and Cabin Baggage

SEC 3.4.1 If the Operator conducts passenger flights, the Operator shall have a process to ensure originating passengers and their cabin baggage are subjected to screening prior to boarding a passenger aircraft for;

- (i) An international flight;
- (ii) As required by the applicable aviation security authority, a domestic flight. **(GM)**

Auditor Actions

- Identified/Assessed** process(es) to ensure all passengers and their cabin baggage are screened prior to boarding a passenger aircraft for international flights.
- Identified/Assessed** process(es) for the screening of originating passengers and their cabin baggage for domestic flights (if required by the applicable aviation security authority).
- Interviewed** responsible manager(s).
- Other Actions** (Specify)

Guidance

Refer to the IRM for the definition of Domestic Flight.

The effective screening of all passengers and their cabin baggage is recognized as an essential element in achieving a safe and secure operation, and forms part of the passenger handling procedures contained in the AOSP.

Technical equipment used for the screening of persons and baggage has certain limitations. Archway metal detectors and hand-held metal detectors, for example, cannot detect non-metallic weapons and explosives. Even conventional X-ray equipment does not always image or define explosive material effectively. To compensate for such limitations, or to introduce a random element into the selection process, it may be advisable to conduct an additional search of passengers and cabin baggage after they have been screened. The additional screening can be performed by hand or by technical means, such as explosive trace detection (ETD), full-body X-ray, explosive particle or vapor detection portals and/or other approved advanced technological methods.

It is recommended that screening equipment used to assist screening personnel is capable of detecting explosive materials and/or explosive devices that might be carried by passengers either on their person or in cabin baggage.

Specific guidelines and procedures are developed and training given to personnel, for addressing persons with special needs.

3.5–3.6 (Intentionally Open)**3.7 Cargo Shipments**

SEC 3.7.1 If the Operator transports revenue or non-revenue cargo, the Operator shall have a process to ensure cargo shipments for transport on all flights have been subjected to the appropriate security controls, including screening where required, as established by the applicable state(s) prior to being loaded onto an aircraft.

Auditor Actions

- Identified/Assessed** process(es) to ensure cargo has been subjected to the appropriate security controls.
- Identified/Assessed** process(es) to ensure security controls performed on cargo meet the requirement of the applicable state(s).
- Examined** selected records that reflect implementation of cargo security controls.
- Interviewed** responsible manager(s).
- Other Actions** (Specify)



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