

Mitigation measures and Safety Review Board

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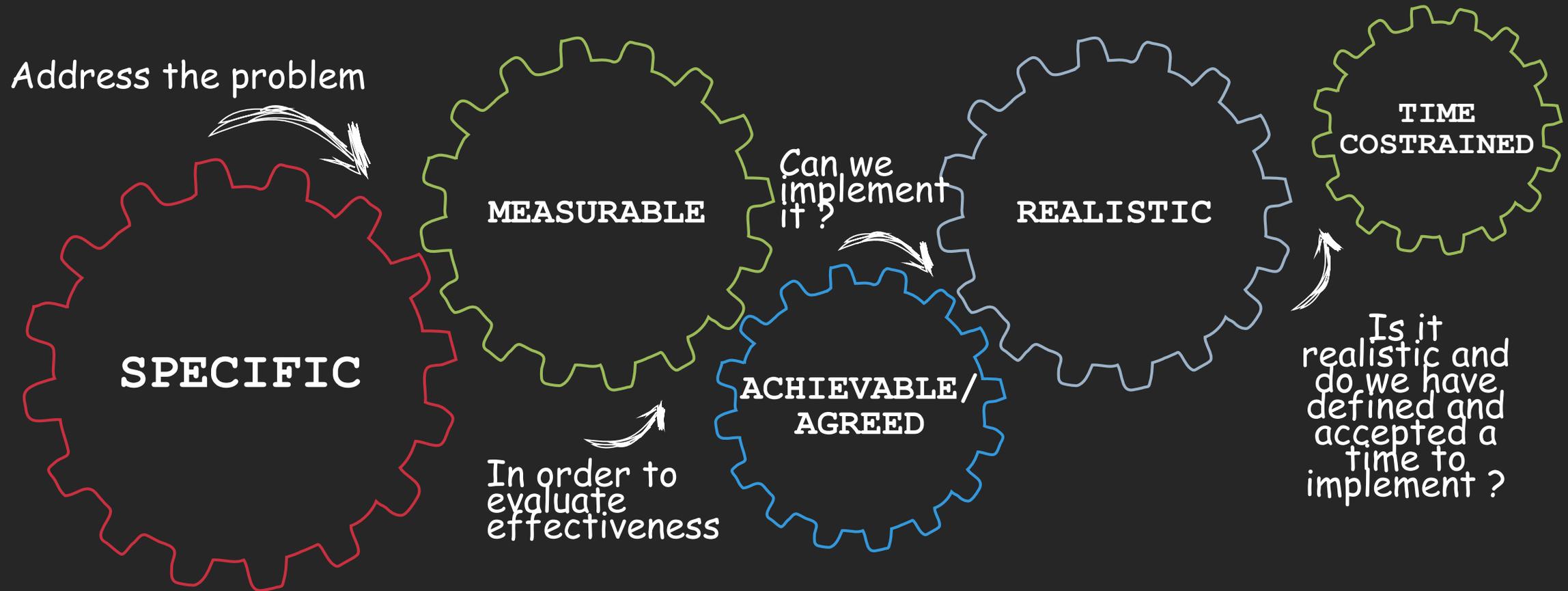
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Your safety is our mission.



The mitigation actions are defined based on the
S.M.A.R.T concept

MITIGATION HAS TO BE : S.M.A.R.T



Source of Hazards: Rapid and large number of A/C 'Return to Service' after Storage
Undesired Event: Aircraft not safe for flight

		Risk severity				
		A	B	C	D	E
Risk probability	Catastrophic	5A	5B	5C	5D	5E
	Hazardous	4A	4B	4C	4D	4E
	Moderate	3A	3B	3C	3D	3E
	Minor	2A	2B	2C	2D	2E
	Negligible	1A	1B	1C	1D	1E

Hazards (cond. leading to undesired event)	Consequences (risks)	Initial Risk level	Actions to mitigate the risk	Residual acceptable risk
Lack of sufficient staff	Failing to determine minimum inspection content due to workload before RtoS and first flight.	3C	Realistic manpower planning (considering: No of staff available and competencies; tasks may take longer; location and environment)	2C
Lack of required parts and materials	Cannibalisation, use of unserviceable or unapproved parts	3B	- Alternative sources to purchase parts & materials - Follow correct procedures (parts removed from serviceable aircraft; status of the cannibalised a/c properly recorded and monitored; incoming inspection)	1B 3C
Lack of appropriate procedures and TCH instructions	Improper storage of the aircraft	4B	- Ensure availability of TCH maintenance instructions (contact TCH for clarifications/additional tasks etc) - Adapt/include, and timely implement long term parking & storage procedures	3B
Procedures and/or instructions are not followed	Critical maintenance tasks not accomplished	4B	- Update/awareness focussed training/briefing of staff (consider pre-shift briefings to update personnel) - Accurate administration of work performed - Audit aircraft in storage to ensure (by sampling) that required tasks are planned and actually accomplished	2B



The concept and functions of SRB come from ICAO Annex 19
(SRB is equivalent to Safety Review Committee)

Safety Review Board

AMC1 CAMO.A.200(a)(1) Management system

ORGANISATION AND ACCOUNTABILITIES

- (a) The management system should encompass safety by including a safety manager, and a safety review board in the organisational structure. The functions of the safety manager are those defined in AMC1 CAMO.A.305(a)(4);(a)(5).
- (b) Safety review board
 - (1) The safety review board should be a high-level committee that considers matters of strategic safety in support of the accountable manager's safety accountability.
 - (2) The board should be chaired by the accountable manager and composed of the person or group of persons nominated under point CAMO.A.300(a) and (b).
 - (3) The safety review board should monitor:
 - (i) safety performance against the safety policy and objectives;
 - (ii) that any safety action is taken in a timely manner; and
 - (iii) the effectiveness of the organisation's management system processes.
 - (4) The safety review board may also be tasked with:
 - (i) reviewing the results of compliance monitoring;
 - (ii) monitoring the implementation of related corrective and preventive actions.
- (c) The safety review board should ensure that appropriate resources are allocated to achieve the established safety objectives.
- (d) The safety manager or another person designated by the safety manager may attend, as appropriate, safety review board meetings. He or she may communicate to the accountable manager all information, as necessary, to allow decision-making based on safety data.
- (e) Notwithstanding point (a), where justified by the size of the organisation and the nature and complexity of its activities and subject to a risk assessment and agreement by the competent authority, the organisation may not need to establish a formal safety review board. In this case, the tasks normally allocated to the safety review board should be allocated to the safety manager.



Safety Review Board (SRB) - *AMC1 CAMO.A.200(a)(1)*

- **High level** committee
- Strategic safety functions
- Chaired by the **accountable manager**
- Composed of the nominated person(s)



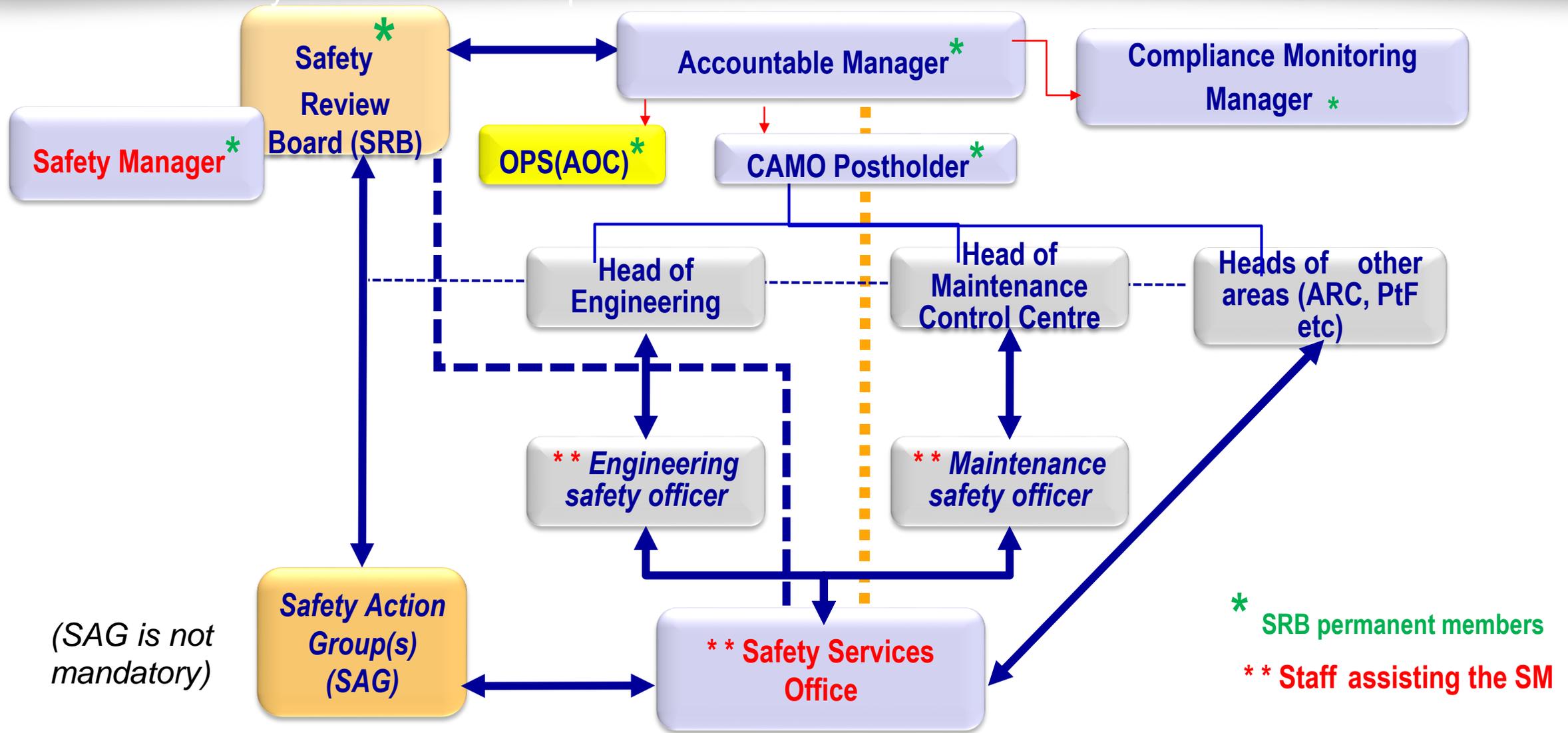
Safety Review Board Functions

- **Should Monitor:**
 - Safety performance against the safety policy and objectives
 - Effectiveness of the safety management processes
 - That any action is taken in a timely manner
- **Ensures** that appropriate resources are allocated to achieve **the established safety performance**
- **May also be tasked with:**
 - reviewing the results of compliance monitoring
 - monitoring the implementation of related corrective and preventive actions.



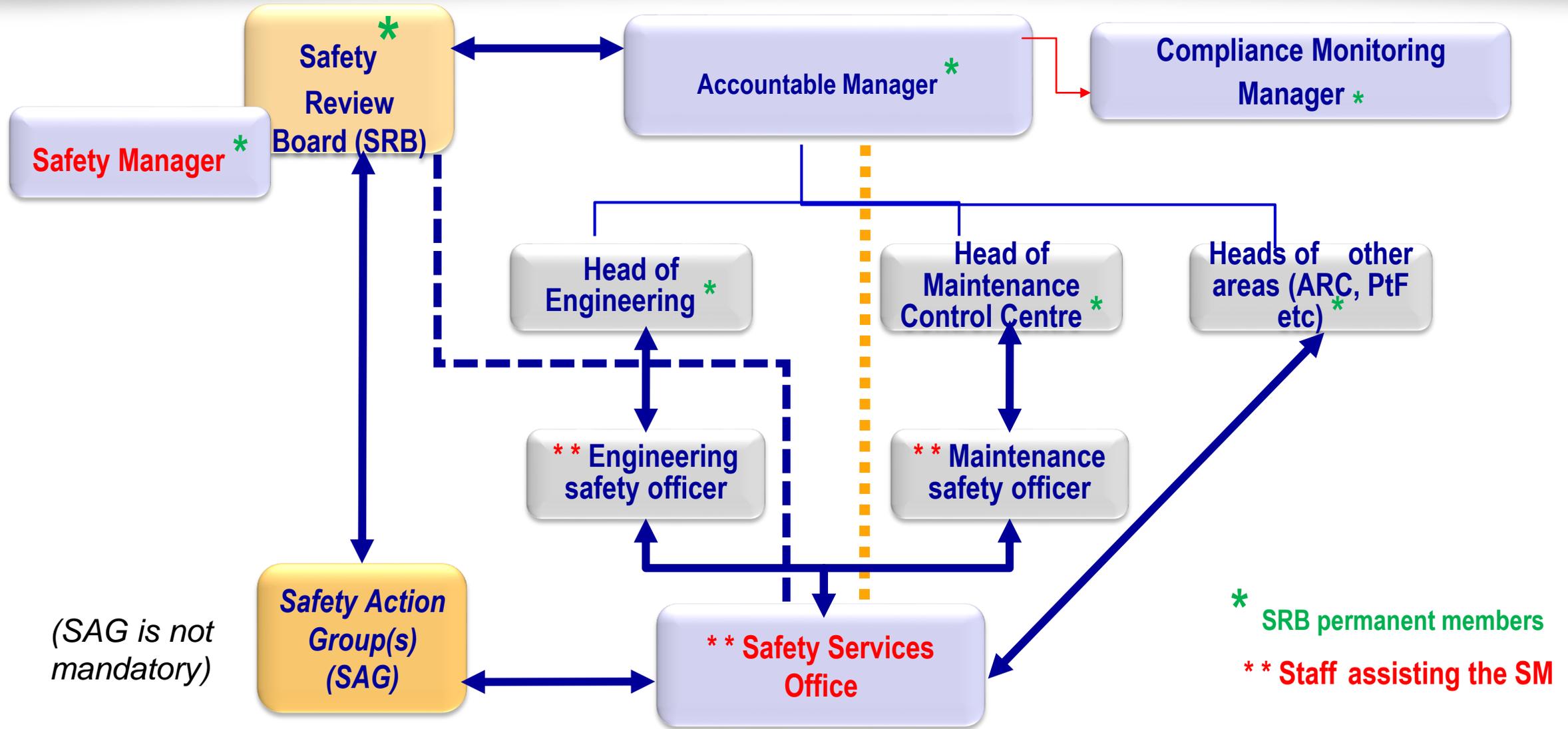
Example – licenced air carrier CAMO

Integrated Management System will remove duplication and exploit synergies by managing safety risks across multiple activities



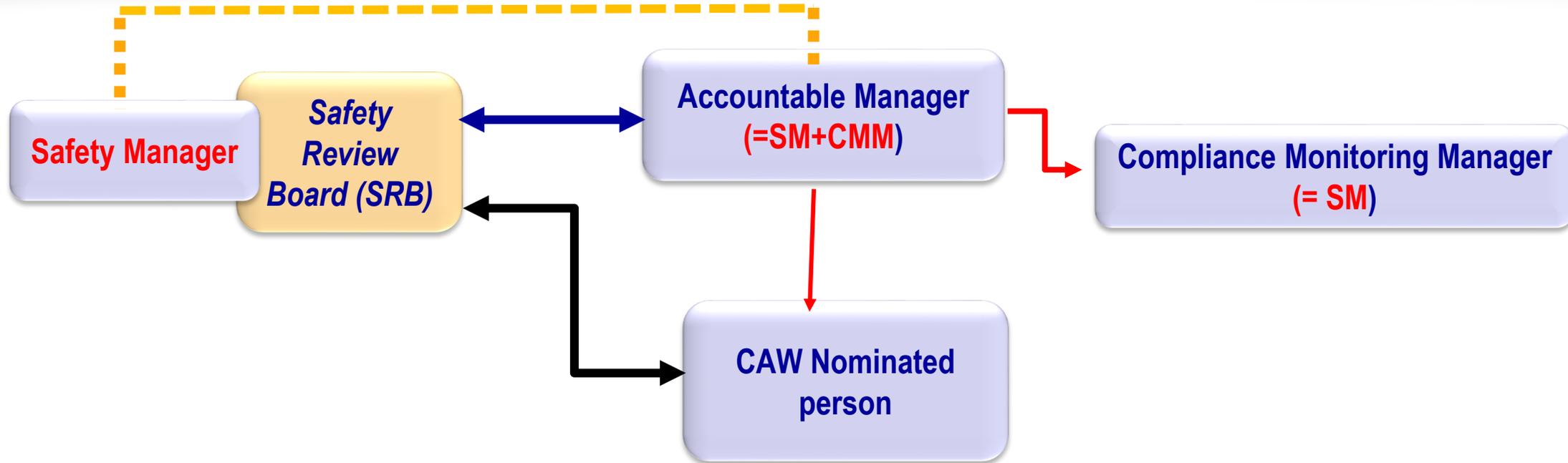


Example – stand-alone large CAMO





Example – small CAMO



Conclusions:

SRB = AM + (SM/CMM) + CAW Nominated person

SM may be also CMM

AM may exercise the role of SM and CMM - **AMC1 CAMO.A.305(a)(4);(a)(5) point (e)**

SRB may not need to be formally established => SM takes over the tasks normally allocated to the SRB - AMC1 CAMO.A.200(a)(1) (e)



Link between operational areas and SRB

- The operational areas identify the hazards and perform risk assessment; few major hazards will be identified and escalated to a higher level (SRB)
- Up to a certain type of risk the operational managers can take actions without a decision of the SRB
- In the SRB meeting:
 - identified major hazards are discussed
 - safety risks are prioritized
 - mitigation measures are agreed (AM takes decisions)
 - monitoring of implementation of actions and effectiveness of taken measures is checked



Tips for National Competent Authorities



Elements to consider during the audit

SRB Meeting remits (basic elements):

- Advance circulation of papers and agenda
- Defined frequency and length of meetings
- Clear representation, accountability and authority of attendees
- Standing agenda items (e.g. output from each of monitoring processes)
- Whom the minutes and actions go to (including senior managers)
- Follow up of previous actions
- Relationship with other meetings (e.g. reliability meetings)

Thank you!
Questions?

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