

RA 1020 - Aviation Duty Holder ►◄ - Roles and Responsibilities

Rationale

Aviation Duty Holders (ADH)¹ are responsible for Air Safety and ensuring that associated Risk to Life (RtL) is As Low As Reasonably Practicable (ALARP) and Tolerable for the aviation activities within their Area of Responsibility. ►◄ A compromised level of accountability for operations may result from not having ADHs ►◄ in place. Clearly defined roles and responsibilities are required so that legally accountable individuals can effectively carry out their duties in mitigating and making judgements on Air Safety Risk.

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Role and Responsibilities of the Aviation Duty Holder

1020(1) ADHs **shall** actively manage Air Safety for each Air System within their Area of Responsibility (AoR) via an Air System Safety Case (ASSC) which is managed by an Air Safety Management System (ASMS), to ensure that RtL is ALARP and Tolerable.

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Role and Responsibilities of the Aviation Duty Holder

1. ADHs are legally accountable for the safe operation, Continuing Airworthiness and Maintenance of Systems in their AoR and for ensuring that RtL is ALARP and Tolerable. They **should**:

- a. Cease routine aviation operations if RtL are identified that are not demonstrably ALARP and Tolerable.
- b. Establish and maintain an effective ASMS that, wherever possible, exploits the MOD's existing aviation regulatory structures, publications and management practices, to demonstrate an Acceptable Means of Compliance with the requirements in RA 1200².
- c. Own and manage a robust ASSC³ for each Air System which demonstrates the Air System is, or is capable of being, safe to operate and operated safely for a given application in a given operating environment.
- d. Promote and lead by example an Engaged Air Safety culture.
- e. Identify ADH-Facing Organizations and inform them of their responsibilities detailed in ► RA 1032⁴ ◄, and challenge any option or action that is proposed or implemented by ADH-Facing Organizations that can undermine the ASSC and result in the activities for which they are responsible not being ALARP and Tolerable.
- f. Appoint a Senior Operator (SO)⁵, a Chief Air Engineer (CAE)⁶, and a Military Continuing Airworthiness Manager (Mil CAM)⁷.

¹ The term ADH encompasses Senior Duty Holder (SDH), Operating Duty Holder (ODH) and Delivery Duty Holder (DDH); interpret accordingly; the different levels are referred to separately where specifically required. Defined in MAA02: MAA Master Glossary.

² Refer to RA 1200 – Air Safety Management.

³ Refer to RA 1205 – Air System Safety Cases; the ODH owns the ASSC, but the SDH and DDH **should** own their contributions to the ASSC.

⁴ ► Refer to RA 1032 – Aviation Duty Holder-Facing Organizations and Accountable Manager (Military Flying)-Facing Organizations - Roles and Responsibilities. ◄

⁵ Refer to RA 1022 – Senior Operator – Air Safety Responsibilities.

⁶ Refer to RA 1023 – Chief Air Engineers – Air Safety Responsibilities.

⁷ Refer to RA 1016 – Military Continuing Airworthiness Management.

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2. ODHs **should** have access to all the levers necessary to manage RtL effectively for all Air Systems in their AoR.
3. Where operational imperatives exist, excursions from the ADH defined capability envelope, declared to the Operational Commander, **should** endure for the shortest time possible⁸, before being resolved through expansion of the ADH defined capability envelope or cessation of the activity.
4. The Operational Commander **should** ensure that where operational imperatives preclude ADH authorization, the Operational Commander authorizes the excursion from the ASSC defined operating envelope and provides retrospective justification to the ADH at the earliest opportunity.

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5. ADHs have a personal legal duty of care for:
 - a. Personnel under their command,
 - b. Those who, by virtue of their temporary involvement in aviation activities, come within an ADH's AoR,
 - c. The wider public who may be affected by their operations.
6. By design, the Air Safety Duty Holder (DH) chain sits in parallel with the full Command chain but does not mirror it. In doing so, it minimizes delegations and provides necessary separation, coupled with a degree of beneficial tension between Air Safety and delivery. Nonetheless, the Air Safety ADH governance model does not absolve commanders at any level of their broader, enduring duty of care responsibilities under Common Law and the Health and Safety at Work Act (1974).
7. In the execution of their specific ADH responsibilities, ADHs are accountable and answerable to the Secretary of State for Defence (SofS), via their superior DH chain. The conventional chain of command will continue to command and control the delivery of capability outputs, but will not direct, nor attempt to influence, nominated ADHs within that chain in the execution of their accountable Air Safety responsibilities.
8. While ADHs are personally accountable for RtL and will ultimately determine for themselves the level of Air Safety Risk they are willing to accept, they will be supported by expert advisers. By virtue of their qualifications, training and experience, ADHs will be conversant with managing operating Risk. In the Continuing Airworthiness and Maintenance domain, the ADH will appoint a Mil CAM responsible for the Continuing Airworthiness Management of an Air System. A CAE is also nominated who is responsible for ensuring engineering standards and practices throughout their AoR and providing advice on strategic cross Air System type engineering and support issues⁶. The ADH will also be supported by a Type Airworthiness Authority (TAA)⁹, who is personally accountable for the Type Airworthiness of the Air System.
9. ADHs must also appoint a SO to support them and be responsible for self-regulation and providing internal Assurance of operating standards and procedures and Flight Safety. SDHs may or may not appoint an ODH as their SO, depending on circumstances and their preference⁵.
10. ADHs must ensure that a safe operating environment and appropriate Assurance is being provided at all tiered establishments and non-MOD Aerodromes¹⁰.
11. The first line of defence in Air Safety is the establishment of an Engaged Air Safety Culture, underpinned by the application of common sense. The ADH has a key role to play in establishing and sustaining such a culture. An ADHs' responsibilities apply when any person interacts with an Air System within their AoR. They also have a personal level duty of care to all others, including the wider public, who may be

⁸ 72 hours is considered the maximum reasonable period for the ADH defined envelope to be expanded, save in the most exceptional of circumstances.

⁹ Refer to RA 1015 – Type Airworthiness Management - Roles and Responsibilities.

¹⁰ Refer to RA 1010 – Head of Establishment - Aviation Responsibilities ► and Aviation Duty Holder / Accountable Manager (Military Flying) Establishment Responsibilities. ◀

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affected by their operations. On any occasion when the responsibility for an ASSC is handed over between individuals, a pan-Defence Lines of Development (DLoD) review of the ASSC must be completed³.

ADH Engagement

12. It is imperative that ADHs lead by example in nurturing and developing an Engaged Air Safety Culture. The detailed governance mechanisms employed by ADHs can be tailored to the scale and nature of the aviation activity being supervised, but the following elements will be considered as the minimum requirement:

- a. **Air Safety Steering Group (ASSG).** A not less than annual forum, chaired by the ODH, to evaluate Air Safety Risk across their AoR and to prioritize available resources and requirements. To be supported by a unified ODH Risk Register and Subject Matter Experts (SME) from ADH-Facing Organizations, when required.
- b. **Air System Safety Working Group (ASSWG).** A regular, Type-specific forum, chaired by the ODH to scrutinize the validity of the live ASSC argument and supporting evidence across the DLoDs.
- c. **Programme Boards.** Ownership of the ASSC is with the SRO from Concept phase until transfer to the end-user ODH. As such, ODHs will be appropriately represented at Programme Boards by senior, informed and empowered representatives. Objections, on Air Safety grounds, to any actual or proposed course of action will be submitted formally by the ODH, in person or in writing, and the objection(s) minuted accordingly.
- d. **Budgetary Planning.** During routine budgetary planning, ADHs will be afforded the opportunity to seek additional resources to mitigate all RtL so that they are ALARP and Tolerable. They will be given full and timely visibility of any measures that potentially affect Air Safety adversely, to ensure authoritative and appropriate impact statements inform auditable planning process decision making.

ADH Responsibilities in Operations

13. **Operating Envelope.** An ADH is personally legally responsible for ensuring that RtL from the activities associated with the generation and sustainment of Force Elements (FE)¹¹ is ALARP and Tolerable. The operating envelope is bounded by, among other things: declared role(s); competency, currency and readiness of personnel; the Release To Service (RTS); defined Tactics, Techniques and Procedures (TTP); and Regulations. The boundaries of the operating envelope will be defined by the ADH in the ASSC and limit the scope of operations which can be demonstrated to be ALARP and Tolerable. The ADH may adjust and redefine the boundary as changes in capability or Operational context occur. For example, an envelope may be expanded leading up to deployment on or during, an operation to accommodate capability increments, such as Urgent Capability Requirements (UCR).

14. **ADH and Operational Commander Responsibilities with respect to Operational Employment.** Aviation FEs are allocated to an Operational Commander when authorized under a Chief of Defence Staff's (CDS) directive to employ subordinate FEs in pursuit of operational objectives. The ADH is responsible to the Operational Commander for their operational readiness in their declared role(s), and for the continuing management of all operating RtL so that they remain ALARP and Tolerable within the operating envelope defined in the ASSC (ie for RtL other than that arising from hostile action¹²). An Operational Commander has the authority to employ allocated FEs in operational tasks at their discretion, bounded by the Laws of Armed Conflict, CDS's Directive, the accompanying Rules Of Engagement (ROE), superior command direction, the FE's defined operating envelopes and due regard to RtL of the forces under their command.

¹¹ Components of capability comprising, among other things; personnel, training, platforms, their serviceability and sustainment.

¹² Survivability in a hostile environment and associated balance of Risk will be addressed by the operational command chain when considering the deployment of Air Systems on operations, in consultation with the ADH and ADH chain (as appropriate).

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15. **Operational Imperative to exceed Operating Envelope.** The limit of an ADH's responsibility and accountability for managing operating RtL in the operational domain is defined as the point at which an Operational Commander directs any relevant activity (operating and / or support) that transcends the operating boundary set by the ADH. In doing so, the Operational Commander will be prepared to justify their actions in retrospect, preferably via a context based auditable Risk analysis. It is acknowledged that the urgency of a particular situation may preclude such a process being carried out formally. Nevertheless, the principles of such a process will inform the Operational Commander's judgements and will be seen to have done so.

16. **Premeditated Change to Operating Envelope**¹³. Where employment of aviation FEs outside of the ASSC defined operating envelope is premeditated:

- a. The Operational Commander will make every effort to understand the residual Risk to properly assess tolerability. Therefore, they will seek advice of the relevant ADH (or their deployed senior representative¹⁴ in Theatre) on the level of Risk, potential mitigations and, if appropriate, alternative courses of action. If direct consultation with the ADH is not achieved, the Operational Commander will make the ADH aware at the earliest opportunity.
- b. RTS excursions will be kept to a minimum and are only to be undertaken when time has precluded the ADH requesting an amendment to the RTS. In any event, such excursions will be notified to the Release To Service Authority.
- c. When, following due consideration and the application of any caveats or controls, an ADH determines that the RtL is ALARP and Tolerable and endorses such an excursion, the operating envelope will be considered redefined and the ADH thereby accepts and owns the associated Risk.
- d. If it is not prudent or practical for the ADH chain to expand the ASSC defined operating envelope, the Operational Commander will accept the RtL, following full ADH consultation. In such cases, the Operational Commander will justify and record the decision to operate outside the envelope described by the ASSC.
- e. Where it is identified that the required operational effect cannot be achieved while maintaining compliance with the MRP, the Operational Commander will consult with the ADH chain as soon as possible. If no compliant solution can be identified, and the Operational Commander judges that the residual Risk is justified by the potential operational benefit, the Operational Commander will accept the RtL before operations continue. Operational Commander and ADH will consult with the MAA in such cases as soon as practicable.
- f. Where a substantive and significant difference of opinion between an ADH and an Operational Commander arises, the ADH has the option to elevate their concerns to the National Contingent Commander (NCC) or the Chief of Joint Operations (CJO). The ADH, NCC and CJO all have the option to refer the issue to CDS.

17. **Deployed SO and CAE.** ADHs may appoint deployed SO and CAE to assist in developing and implementing the associated processes. They are responsible to their parent ADHs for providing internal Assurance of deployed operating procedures, standards and Flight Safety, and Engineering standards and practices. Deployed SO or CAE are responsible directly to the relevant ADH, but need not necessarily be exclusive to them assuming roles in the operational command chain.

18. **Support Structures and Processes.** The implementation of the above principles will require exploitation of existing structures and processes, some of which may need to be adapted. Additional supporting mechanisms may need to be developed, that will need to integrate and be coherent with extant arrangements such

¹³ Refer to RA 1210 – Ownership and Management of Operating Risk (Risk to Life).

¹⁴ The nomination of a deployed senior representative is in the context of managing RtL and at the discretion of the ADH, and is not necessarily the same individual as the Deployed SO (see paragraph 17), which is a different and specifically defined role. Though deployed senior representatives provide advice on behalf of the relevant ADH, this need not necessarily be exclusive to their assuming roles in the operational command chain.

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as the ADH's ASSC, including Risk Register, ASSG and ASSWG processes. Establishment of working dialogues between operational command and ADH chains will ensure that respective responsibilities and constraints on the deployed air systems are thoroughly understood.

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Aviation Duty Holder Nomination

1020(2) Each Service Chief **shall** be an SDH by virtue of position, and personally appoint by name ODHs and DDHs within their AoRs.

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19. SDHs **should** ensure that all Air Systems in their AoR are operated under the accountability of appropriate ADHs.
20. SDHs **should** ensure that the ODHs and DDHs that they appoint are operators that are Suitably Qualified and Experienced Persons (SQEP) (see paragraph 23 and 26).
21. Names of ODH and DDH nominees **should** be submitted for endorsement by the MAA Director (Dir MAA) in accordance with MAA 03 Annex G¹⁵.
22. ODHs, DDHs, SOs¹⁶, CAEs¹⁶, and Mil CAMs **should** attend the Duty Holder Air Safety Course (DHASC)¹⁷. ODHs and DDHs **should** complete the DHASC prior to assuming their appointments. Bespoke training **should** be provided for SDHs on appointment.

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23. **ADH Levels.** The SDH appoints by name ODHs and DDHs who are SQEP and appointees are required to acknowledge and accept formally their ADH responsibilities. In the execution of their specific ADH responsibilities, ADHs are accountable and answerable to the SofS, via their superior ADH chain. ADHs are nominated at three levels in each Service:
 - a. **Senior.** SDHs are personally legally responsible and accountable for ensuring that: an effective, end-to-end ASMS is resourced, implemented and appropriately managed in their AoRs; and that those personnel under their command who are engaged directly in Defence Aviation are suitably qualified, trained, experienced and equipped.
 - b. **Operating.** ODHs are 2* operators who are personally legally responsible and accountable for the safe operation, Continuing Airworthiness and Maintenance¹⁸ of the Air Systems in their defined AoR. An ODH owns and is responsible for the management and upkeep of the ASSC for each of their Air Systems. ODHs are accountable to their respective SDH for Air Safety, provide the SDH with relevant subject matter advice, and have right of direct access.
 - c. **Delivery**¹⁹. DDHs are personally legally responsible and accountable for the safe operation, Continuing Airworthiness and Maintenance¹⁹ of the Air Systems in their defined AoR. DDHs are accountable to their designated ODH for Air Safety, provide the ODH with relevant subject matter advice, and have right of direct access. Where units of one DDH operate from the estate, or are supported by the resources of another, suitable arrangements will be in place to

¹⁵ Refer to MAA03: Military Aviation Authority Regulatory Processes.

¹⁶ At all ADH levels.

¹⁷ For further training details see RA 1440 – Air Safety Training.

¹⁸ Where the Maintenance of an Air System is in whole, or in part, conducted by a Mil Part 145 accredited organization, ADH responsibilities in this regard will be limited to oversight activities via their CAE and TAA, including validation of output standards, and the meeting of any contractual obligations.

¹⁹ DDHs will routinely be appointed at OF5 / air station Command level, but their responsibilities may extend over several sites / sub-units. Lower levels of appointment may be appropriate in certain specialist areas, such as Test & Evaluation and certain categories of Remotely Piloted Air Systems.

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delineate clearly Air Safety responsibilities – the ADH providing support is acting as an ADH-Facing Commanding Officer.

24. **Joint Organizations.** An ODH of a Joint organization may be accountable to multiple SDHs. This will not conflict with an ODH's ability to discharge their responsibilities.

25. **Endorsement.** ODH and DDH appointments need to be endorsed by the MAA on the basis of evidence provided demonstrating that they are suitably qualified, experienced and trained for the role.

26. **SQEP.** Utilizing the ODH and DDH submission template contained within MAA 03 Annex G¹⁵, Service workforce agencies will provide detailed Terms of Reference for the nominated ADH and an evidence-based argument as to why the nominee is deemed SQEP.

**Regulation
1020(3)****Responsibilities of Aviation Duty Holder-Facing Organizations**

1020(3) ► **Withdrawn – Incorporated into RA 1032.** ◀

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27. ► **Withdrawn – Incorporated into RA 1032.** ◀

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28. ► **Withdrawn – Incorporated into RA 1032.** ◀