



NPA/24/55

Title of Proposal: RA 2310- Flight Procedures: Role Specific Fixed Wing

RA(s) or Manual Chapter(s): RA 2310 Issue 7

Organizations and / or business sectors affected: All of the Regulated Community.

RFC Serial No: MAA/RFC/2022/197

MAA Author

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N/A	N/A	N/A	N/A

Cross-references to Other Documents or Relevant Sources

Other MRP Amendments: N/A

Service Inquiry Recommendations: N/A

AAIB Recommendations: N/A

Other Investigation Recommendations: N/A

Any Other Document: N/A

Feedback Notes for the Regulated Community

The Regulated Community are invited to offer feedback about the proposed amendment in the following areas:

- Air or Flight Safety impact
- Operational impact
- Errors or omissions
- Timescale for implementation
- Cost of implementation
- Amendment to internal processes/orders
- Resourcing the outcome of change



• (Contract amendments because of the change)

The format for feedback is available within a single Excel Template file on both internal and external MAA websites; it is important to use this format to ensure that your responses are considered and answered correctly.

Summary of Proposed Amendment

Objective: Quinquennial Review

Changes made:

- Txt separated into more paragraphs for clarity, with some re-arranging for better flow.

- Clarity in RA2310(3) that the limiting weather conditions are those of the handling pilot, not necessarily a trainee.

- Clarity in RA2310(4) that an engine can be shutdown on a single engine Air System for non-routine reasons, eg IFE.

Impact Assessment: Minimal

Consultation Period Ends: 4 weeks

The consultation period for this proposed amendment ends on the stated date. Please send your feedback, using the Response Form, via email to <u>DSA-MAA-MRPEnquiries@mod.gov.uk</u>

MAA Approval

Post	Name	Rank	Signature
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RA 2310 – Flight Procedures: Role Specific Fixed Wing

UK military fixed wing ► Air Systems ◄ offer capabilities and challenges that are distinct from other Air Systems. Failure to appropriately address the nuances of fixed wing Air System role specific Hazards could lead to an increased Risk to Life (RtL). This Regulation requires Aviation Duty Holders (ADH) and Accountable Managers (Military Flying) (AM(MF)) to detail in orders the conduct of these role specific activities to ensure that RtL is As Low As Reasonably Practicable and Tolerable.
2310(1): Supersonic Flight 2310(2): Spinning 2310(3): Asymmetric Flight 2310(4): Single-Engine Air System Engine Shutdowns
Supersonic Flight2310(1)ADH and AM(MF) shall publish orders detailing the conduct of supersonic flight for operations, training, tests and trials within their Area of Responsibility (AoR).
 Supersonic Flight Conduct and Positioning of Supersonic Flights in the UK Flight Information Region (FIR). In the UK FIR, all supersonic flights should be conducted over the sea, unless supersonic flight over land is operationally required. ► When supersonic and less than 35 nautical miles (nm) from the nearest land, Aircraft Commanders should ensure their Aircraft is at least 10 nm from land, and on a Track which is at least 20° divergent from the mean line of the coast. When the purpose of a dive manoeuvre is to achieve supersonic flight, the angle of dive should not exceed the minimum necessary. Aircraft Commanders should ensure that the appropriate radar Station is notified of all planned supersonic flight should only take place if a radar / visual search is maintained to avoid the following by the criteria stated: a. 3 nm from shipping and fixed or mobile oil and gas installations. b. 6 nm from civilian or military transport Aircraft, helicopters, helicopter main routes and corridors. Supersonic Flights outside the UK FIR. Supersonic flight should only be carried out in accordance with (iaw) host nation Regulations. Recording of Supersonic Flights. ► Where supersonic flight should only be carried out in accordance with (iaw) host nation Regulations. Recording of Supersonic Flight. ► Where supersonic flights do not conform to the pre-flight briefing, Aircraft Commanders should retrospectively make a record of the details of the supersonic flight in the flight Authorization record. Similarly, radar Stations should maintain ► an auditable record of supersonic flight conducted. Heading and speed of Aircraft (where known). Position (area in the case of sustained supersonic flight).
e. Altitude and attitude (where known).

Acceptable Means of Compliance 2310(1)	9. Inadvertent Supersonic Flight. If ► an ◄ Aircraft Commander knows or suspects that their Aircraft has inadvertently made a supersonic flight that breaches this Regulation, they should make ► an auditable ◄ record, ► iaw paragraph 8, ◄ of the breach in the flight Authorization record, ► and notify their parent unit. The ◄ parent unit ► should ◄ notify the appropriate Control and Reporting Centre or Control and Reporting Point, Military Supervisor at 78 Sqn, Swanwick Mil or Naval Radar Unit of the flight within 30 minutes of the Air System's landing. The ► unit receiving the notification from the parent unit ◄ should maintain ► an auditable ◄ record ► ◀.
Guidance Material 2310(1)	Supersonic Flight 10. Supersonic Flights outside the UK FIR. Where there are no host nation Regulations, these UK Regulations must be used.
Regulation 2310(2)	 Spinning 2310(2) Intentional spinning shall be specifically approved and authorized.
Acceptable Means of Compliance 2310(2)	 Spinning 11. Intentional spinning should be ➤ conducted < only where ➤ this activity is cleared < in the ➤ Air System Document Set (ADS)¹, and be done so < iaw ➤ the < procedures ➤ therein. 12. If still spinning by the minimum Height given in the ADS^{▶1} 14. If still spinning by the minimum Height given in the ADS^{▶1} 15. If still spinning by the minimum Height given in the ADS^{▶1} 16. ADH / AM(MF) orders, the Aircraft should be abandoned.
Guidance Material 2310(2)	Spinning 13. Nil.
Regulation 2310(3)	Asymmetric Flight 2310(3) Airborne practice and simulated Asymmetric Flight shall be specifically approved and authorized.
Acceptable Means of Compliance 2310(3)	 Asymmetric Flight 14. ADH / AM(MF) should promulgate orders ► for ◄ practice and simulated Asymmetric Flight ► for applicable Aircraft in their AoR, which include at least the following: a. The minimum Height for Asymmetric Flight. b. Asymmetric Flight currency. c. Weather limits for Asymmetric Flight. d. Asymmetric Flight Operating limitations. ◄ 15. Asymmetric Flight approaches and landings should only be practised in weather conditions within the ► ability ◄ of the ► handling ◄ pilot ► ◄.
	 16. ▶ Practice and simulated Asymmetric Flight should only be conducted if cleared in the ADS¹. 17. Practice and simulated Asymmetric Flight should be conducted in such a manner that safe flight can be continued in the event of a real engine failure. 18. On multi engine Aircraft that exhibit asymmetric characteristics with the loss of thrust on one engine, ◄ simulated engine failure on take-off below ▶ a Height of ◄ 500 ft ▶ ◄ should only be carried out under the ▶ supervision ◄ of a suitably authorized Qualified Flying Instructor or when authorized under a trials instruction.

¹ ► Reference to the ADS specifically includes the Release To Service (RTS) or, for non RTS flying operations, the Military Permit to Fly (MPTF). ◄

Guidance	Asymmetric Flight
Material 2310(3)	19. Due to the increased Risks associated with Asymmetric Flight, practice and simulated Asymmetric Flight training will be closely supervised; training will be regular and limited to the amount necessary to achieve ►Competence.◄
	20. Practice Asymmetric Flight is flight in which a Serviceable engine (or engines) is shut down, (eg for training purposes), with the propeller(s) feathered (if applicable).
	21. Simulated Asymmetric Flight is flight with all engines running, but with one or more engines set at "Zero Thrust" or "Flight Idle" to give a condition of asymmetry.
	22.
	23. Full-stop landings and touch-and-go landings following simulated Asymmetric Flight approaches and touchdowns may be carried out providing that Approval for the Air System has been granted by the appropriate ADH / AM(MF).
Regulation	Single-Engine Air System Engine Shutdowns
2310(4)	2310(4) Engine shutdowns and re-lights in single-engine Air Systems shall not be ▶ routinely ◄ carried out in the air ▶ ◄.
Acceptable	Single-Engine Air System Engine Shutdowns
Means of Compliance 2310(4)	24. Engine shutdowns and re-lights should only be carried out in single-engine Air Systems ▶ in the air, ◄ when part of an approved Flight Test Schedule or MPTF (Development) programme, ▶ or when responding to an emergency situation iaw the ADS ¹ . ◄
Guidanco	Single Engine Air System Engine Shutdowns
Material 2310(4)	25. This Regulation does not apply to self-launching motor gliders or Remotely Piloted Air Systems that can only recover by means of a parachute.

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