RA 4813 - Maintenance Records (MRP 145.A.55)

Rationale	A record of all Maintenance activities carried out on military registered Air Systems and Air System components is required to provide an Audit trail of the work and to enable Quality Assurance, data exploitation and investigations. Without a sufficient level of Maintenance recording, the Continuing Airworthiness of an Air System could be compromised, potentially increasing Risk to Life. This RA establishes the requirement for the minimum level of work recording, record retention and the management of such records.
Contents	4813(1): Recording and Retention of Maintenance Work (MRP 145.A.55(a))
	4813(2): Copies of Maintenance Records (MRP 145.A.55(b))
	4813(3): Management of Retained Maintenance Records (MRP 145.A.55(c))
	4813(4): Management of Maintenance Documentation on Delivery or Transfer of an Air System
Regulation 4813(1)	 Recording and Retention of Maintenance Work (MRP 145.A.55(a)) 4813(1) The organization shall record all details of Maintenance work carried out. As a minimum, the organization shall retain records necessary to prove that all requirements have been met for endorsing the Certification of Air System / Component Release, including subcontractor's¹ certificates / release documents, where applicable.
Acceptable Means of	Recording and Retention of Maintenance Work (MRP 145.A.55(a))
Compliance 4813(1)	1. Maintenance records should include a description of the work carried out to include the following:
	a. Reference to any Technical Instruction (TI) that was used to aid the task (including the amendment state of the publication).
	b. Serial number, and appropriate life recording data, of any item / component fitted / removed as part of that task.
	c. The batch number ^{▶2◀} of Standard Parts and consumables used as part of the item / component refit or reconnection, as detailed on un-broached equipment packaging, or on acceptable accompanying documentation.
	d. The serial number of any calibrated tools, equipment, and ▶ ◀ test equipment, used ▶ within the task. ◀
	2. When electronic means are used to record Maintenance carried out, Electronic Signatures should be considered as equivalent to those made on hardcopy Maintenance documents.
	3. When more than one person is detailed to work on a Maintenance task, each person should be identified and sign for the work they complete within that task.

¹ Approved Maintenance Organizations (AMO) may subcontract Maintenance activities to a non-MRP Part 145 organization but in doing so the subcontracted organization's facilities, personnel and procedures involved with the AMO's products undergoing Maintenance is effectively subsumed into the AMO in that it works under the contracting AMO's Quality Management System and the AMOs MRP Part 145 approval is extended to include the subcontractor. It therefore follows that those parts of the subcontractor's facilities, personnel and procedures shall meet MRP Part 145 requirements for the duration of that Maintenance. It remains the contracting AMO's responsibility to ensure such requirements are satisfied, as it retains accountability for all actions and outputs of the subcontracted organization in the Maintenance of the AMO's products. All subcontracted organizations shall be listed within the contracting AMO's Maintenance Organization Exposition (MOE). ² • Batch numbers may also be referred to on documentation or packaging in other terms such as lot, run, or series numbers /

references. If in doubt advice **should** be sought from the appropriate Delivery Team or vendor.

Acceptable Means of Compliance 4813(1)	4. Parts dismantled or components removed for access or if replaced require an appropriate record to this effect. The record should contain the complete nomenclature and serial number of such items and should refer to any associated TI ³ references that describe its removal / refit / replace.
	Additional AMC - Military Maintenance Organizations (MMO) only
	5. MMOs should record details of Maintenance work using the MOD Form 700 documentation and / or electronic Information System equivalent in accordance with (iaw) the appropriate Instructions for Use and procedures.
	6. All Maintenance work carried out on Air Systems and Air System equipment should be recorded and certified by an appropriately authorized person ⁴ .
	 MMOs should retain Maintenance records if the information they contain continues to be pertinent to the Continuing Airworthiness of an Air System. Maintenance records should be retained for a period determined by the form sponsor and, if relevant, in consultation with the relevant Type Airworthiness Authority (TAA)⁵.
	Additional AMC - AMOs only
	8. To ensure traceability to installed Air System component documentation and associated TI ³ , records should contain basic details of all serialized Air System components installed.
	9. The Maintenance record should be either a paper or computer system or any combination of both ⁶ :
	a. Paper systems should use robust material which can withstand normal handling and filing. The record should remain legible throughout the required retention period.
	10. AMOs should describe document retention and transfer procedures, as directed by the relevant TAA, within the MOE.
Guidance Material	Recording and Retention of Maintenance Work (MRP 145.A.55(a)) Common GM
4813(1)	11. Certification of Air System or Air System equipment Maintenance is required to provide a fully auditable record of the work carried out. It will identify uniquely, those responsible for the work in a manner that can be authenticated. When certifying a Maintenance record, a person is implicitly stating that they have completed or supervised the Maintenance task iaw applicable Tl ³ , orders, Instructions for Use, procedures and processes.
	12. Completed documentation that continues to be relevant in support of Airworthiness investigations will also be retained.
	13. Properly executed and retained records provide information essential in controlling Corrective and Preventive Maintenance and troubleshooting to eliminate the need for re-inspection and additional work to establish Airworthiness. The prime objective is to have secure and easily retrievable records with comprehensive and legible contents.
	Additional GM - MMOs only
	14. To maintain Configuration Control, new forms will not be created and used within the MOD Form 700 series unless endorsed by the MAA ⁷ .

³ Refer to RA 4810 – Technical Information (MRP 145.A.45).

⁴ Refer to RA 4806(5): Personnel Competences and Authorization (MRP 145.A.30(e)).

⁵ Where the Air System is ▶not UK MOD-owned, Type Airworthiness (TAw) management ◄ regulatory responsibility by either the TAA or Type Airworthiness Manager (TAM) needs to be agreed within the Sponsor's approved model ▶ ◀; refer to RA 1162 – Air Safety Governance Arrangements for Civilian Operated (Development) and (In-Service) Air Systems, or refer to RA 1163 – Air Safety Governance Arrangements for Special Case Flying Air Systems. Dependent on the agreed delegation of TAw responsibilities TAM may be read in place of TAA as appropriate throughout this RA.

 ⁶ Refer to RA 1223 – Airworthiness Information Management.
 ⁷ Refer to MAA03: MAA Regulatory Processes.

Guidance Material	Additional GM - AMOs only 15. Nil.
4813(1)	
Regulation 4813(2)	 Copies of Maintenance Records (MRP 145.A.55(b)) 4813(2) The AMO shall provide a copy of each document relating to the Certification of Air System / Component Release to the relevant Military Continuing Airworthiness Management Organization (Mil CAMO), together with a copy of any specific approved Repair / Modification instructions used for Repairs / Modifications carried out.
Acceptable Means of Compliance 4813(2)	Copies of Maintenance Records (MRP 145.A.55(b)) 16. Nil.
Guidance Material 4813(2)	Copies of Maintenance Records (MRP 145.A.55(b)) 17. Nil.
Regulation	Management of Retained Maintenance Records (MRP 145.A.55(c))
4813(3)	4813(3) The organization shall manage retained copies of all detailed Maintenance records and any associated TI, as instructed by the MAA, such that:
	 Records under this Regulation shall be stored in a safe way with regard to fire, flood and theft.
	b. Computer backup discs, tapes etc shall be stored in a different location from that containing the working discs, tapes etc, in an environment that ensures they remain in good condition.
	c. Where a Maintenance organization terminates its operation, all retained Maintenance records shall be transferred to the relevant Mil CAMO.
Acceptable Means of Compliance 4813(3)	Management of Retained Maintenance Records (MRP 145.A.55(c)) Common AMC
	18. Some gas turbine engines are assembled from modules and a true total time in service for a total engine is not kept. When such an engine is being maintained, the total time in service and Maintenance records for each module should be kept. The Maintenance records as specified should be kept with the module and show compliance with any mandatory requirements pertaining to that module.
	19. In the event that Maintenance records are lost, corrupted or inaccurate, the Mil CAMO should be consulted ⁸ .
	Additional AMC - MMOs only
	20. The MOD Form 700 documents should be kept in safe custody, kept free from defacement and kept legible at all times.
	21. Maintenance records can be scanned and stored electronically, but should be subject to Certification that the electronic copy is a true, legible and complete facsimile

⁸ Refer to RA 4964(2): Continuing Airworthiness Records.

Acceptable Means of	of the original. Such electronic storage of documentation should meet the same requirements as those for the hard copy.
Compliance	Additional AMC - AMOs only
4813(3)	22. Maintenance records should be retained until the work it records has been invalidated by documented work carried out subsequently (for example, Preventive Maintenance, Depth Maintenance, Base Maintenance or equivalent Maintenance).
	23. In addition, Maintenance records for Air Systems subject to Civil Aviation Authority (CAA) oversight should be kept for a minimum of 3 years from the date the Air System or component to which the work relates was released from the organization.
	24. Any reconstructed records should be submitted to the Military Continuing Airworthiness Manager (Mil CAM) for acceptance.
Guidance Material 4813(3)	Management of Retained Maintenance Records (MRP 145.A.55(c)) Common GM
	25. 'Associated Technical Information' is specific information such as Repair and Modification instructions. This does not necessarily require the retention of all Technical Publications.
	Additional GM - MMOs only
	26. Nil.
	Additional GM - AMOs only
	27. The term "terminates its operation" in this Regulation is deemed to mean the ending of the contractual relationship with the MOD and thus the cessation of an AMO's Approval.
	28. Reconstruction of lost or destroyed records can be done by reference to other records which reflect the time in service, research of records maintained by Repair facilities and reference to records maintained by individual mechanics etc. When these things have been done and the record is still incomplete, the Mil CAM may make a statement in the new record describing the loss and establishing the time in service based on the research and the best estimate of time in service.
	Note:
	Additional Maintenance may be required.
Regulation 4813(4)	Management of Maintenance Documentation on Delivery or Transfer of an Air System
4010(4)	4813(4) On delivery or transfer of any Air System the organization shall despatch the original copies of all relevant Maintenance documentation, forms and certificates (including MOD Form 700 series documents or equivalent agreed with the TAA) to the receiving unit.
Acceptable Means of Compliance 4813(4)	Management of Maintenance Documentation on Delivery or Transfer of an Air System
	29. On delivery or transfer of any Air System all relevant current Air System documentation, forms and certificates that are required for the operation or planned agreed Maintenance of the Air System should be dispatched to the receiving organization.
	30. All engineering documentation forms transferred should be listed on a transfer document completed by the organization's authorized signatory. Documentation should be dispatched promptly to the receiving unit without delay.
	31. Documents sent by post should be sent by Registered Mail or a similar recorded and trackable method.

Acceptable Means of Compliance 4813(4)	32. When Air Systems and related Products, Parts and Appliances are transferred to a Contracted organization for Modification, Repair, major Maintenance etc, the associated forms should also be returned on completion of the Modification, Repair, major Maintenance etc. In the event of non-receipt of the forms the receiving organization should advise the despatching unit who should investigate and provide the necessary information.
	33. Original documents should not be carried in the Aircraft to which they refer. RA 2201 ⁹ should be read in conjunction with this Regulation.
	34. Any document bearing an original signature required to be carried on an Aircraft, including forms for the completion by the Aircrew on arrival at the destination, should be duplicated and a copy held at the despatching unit.
Guidance Material	Management of Maintenance Documentation on Delivery or Transfer of an Air System
4813(4)	 35. Closed forms for Air Systems and related Products, Parts and Appliances ► will < be returned to the parent Unit of the Air System on transfer (not in any circumstances on the Aircraft to which they refer) for disposal iaw Service instructions.

⁹ Refer to RA 2201 – Carriage of Maintenance Documents in UK Military Aircraft.

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