

RA 4805 – Facility Requirements (MRP 145.A.25)

Rationale

In order to carry out Air System and / or Air System component Maintenance it is essential that appropriate engineering facilities are provided. Without suitable infrastructure, Maintenance personnel and equipment may not have the necessary protection from the environment, which can increase the potential for Maintenance errors and Risk to Life. RA 4805 details the appropriate facility requirements for Maintenance organizations to ensure that the scope of work can be undertaken safely.

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Regulation 4805(1)

Facility Requirements (MRP 145.A.25(a))

4805(1) The organization **shall** ensure that facilities are provided that are appropriate for Maintenance work¹, ensuring, when necessary, protection from the weather elements and appropriate security safeguards for any classified items. Specialized workshops and bays **shall** be segregated as appropriate to ensure that environmental and work area contamination is unlikely to occur.

- a. For 'base' or 'depth' Maintenance of Air Systems, Air System hangars **shall** be both available and large enough to accommodate Air System 'base' or 'depth' Maintenance. Where such facilities cannot be established at deployed locations, Military Maintenance Organizations (MMOs) **shall** assess the suitability of alternative facilities and ensure that any additional risk to Air Safety is appropriately managed, advising the Delivery Duty Holder (DDH) as appropriate.
- b. For component Maintenance, component workshops **shall** be large enough to accommodate the Maintenance work.

Acceptable Means of Compliance 4805(1)

Facility Requirements (MRP 145.A.25(a))

Common AMC

1. Protection from the weather elements relates to the normal prevailing local weather elements that are expected throughout any 12 month period. Air System hangar structures used to accommodate 'base' or 'depth' Maintenance and component workshop structures **should** prevent the ingress of rain, hail, ice, snow, wind and dust etc; floors **should** be sealed to minimize dust.

Additional AMC - MMOs only

2. In derogation to Paragraph 1, expeditionary operations (and training for such operations) might require MMOs to undertake ► Preventive ◀ Maintenance without the provision of a suitable hangar, including that level of Maintenance which would otherwise be carried out in the 'depth' domain. In such circumstances, the MMO

¹ For Approved Maintenance Organizations (AMOs), the Maintenance work is that which is undertaken in accordance with (iaw) the approved scope of work; refer to RA 4804 – Terms of Approval (MRP 145.A.20) – Approved Maintenance Organizations only.

Acceptable Means of Compliance 4805(1)

should assess and utilize those resources available to establish an environment appropriate for the scope of Maintenance to be carried out. If adequate facilities cannot be established, the DDH **should** be informed to ensure that any additional Air Safety risk is appropriately managed.

3. When operating at UK civilian or foreign airfields, MMOs **should** adhere to Defence Policy and single-Service requirements for security safeguards.

Additional AMC - AMOs only

4. Where the hangar is not owned by the organization or provided by the MOD, AMOs might have to establish proof of tenancy. In addition, sufficient hangar space to carry out Maintenance **should** be demonstrated by the preparation of a projected Air System hangar visit plan relative to the Maintenance programme. The Air System hangar visit plan **should** be updated on a regular basis.

Guidance Material 4805(1)

Facility Requirements (MRP 145.A.25(a))

Common GM

5. For 'line' or 'forward' Maintenance of Air Systems, hangars are not essential but it is recommended that, where practicable, access to hangar accommodation be demonstrated for usage during inclement weather for minor ► **Preventive Maintenance** ◀ work and lengthy fault rectification.

6. Facilities ► **will** ◀ provide the appropriate level of security to any classified items being maintained and / or stored, be they held individually or installed to an Air System or assembly. AMOs ► **will** ◀ meet their contractual requirements in this regard.

7. When a UK military registered Air System is at a foreign or civilian airfield, the appropriate Command or Defence Contractor Flying Organization ► **is to** ◀ consider guarding by the host nation or UK Service personnel in order to preserve the Airworthiness of the Air System.

Additional GM - MMOs only

8. If security requirements necessitate the removal of classified equipment, it ► **will** ◀ be undertaken iaw the Air System Document Set and the items held in a secure store as required by Defence Policy.

Additional GM - AMOs only

9. The 'hangar visit plan' is a document that shows the projected planning of hangar utilization. The purpose of the hangar visit plan is to show that adequate facilities are at the disposal of the organization for the proposed scope of Maintenance.

Regulation 4805(2)

Office Accommodation (MRP 145.A.25(b))

4805(2) The organization **shall** ensure that office accommodation is provided for the management of the Maintenance work referred to in RA 4805(1)², and certifying staff so that they can carry out their designated tasks in a manner that contributes to good Air System Maintenance standards.

Acceptable Means of Compliance 4805(2)

Office Accommodation (MRP 145.A.25(b))

10. Air System Maintenance staff **should** be provided with an area where they can study Maintenance instructions and complete Maintenance records.

² Refer to RA 4805(1): Facility Requirements (MRP 145.A.25(a)).

**Guidance
Material
4805(2)**

Office Accommodation (MRP 145.A.25(b))

11. It is acceptable to combine any or all of the office accommodation requirements into one office subject to the staff having sufficient room to carry out the assigned tasks.
12. It is not essential for the office accommodation required by this Regulation to be a purpose-built room or building, but it **▶will◀** provide a working environment that permits personnel to carry out their work in an effective manner.

**Regulation
4805(3)**

Working Environment (MRP 145.A.25(c))

- 4805(3) The organization **shall** ensure that the working environment, including Air System hangars, component workshops and office accommodation, is appropriate for the task carried out. Unless otherwise dictated by the particular task environment, the working environment **shall** be such that the effectiveness of personnel is not impaired.

**Acceptable
Means of
Compliance
4805(3)**

Working Environment (MRP 145.A.25(c))

Common AMC

13. Temperatures **should** be maintained such that personnel can carry out required tasks without undue discomfort.
14. Dust and any other airborne contamination **should** be kept to a minimum and not be permitted to reach a level in the work task area where visible Air System and / or Air System component surface contamination is evident. Where dust / other airborne contamination results in visible surface contamination, all susceptible systems **should** be sealed until acceptable conditions are re-established.
15. Lighting **should** be such as to ensure each inspection and Maintenance task can be carried out in an effective manner.
16. Noise **should not** distract personnel from carrying out inspection tasks. Where it is impractical to control the noise source, such personnel **should** be provided with the necessary personal equipment to stop excessive noise causing distraction during inspection tasks.
17. The working environment for Air System Maintenance **should** be such that the particular Maintenance or inspection task can be carried out without undue distraction. Therefore, where the working environment deteriorates to an unacceptable level in respect of temperature, moisture, hail, ice, snow, wind, light, dust or other airborne contamination, the particular Maintenance or inspection tasks **should** be suspended until satisfactory conditions are re-established.
18. Due to the particular challenges of embarked aviation, specific risk mitigation measures **should** be put in place for Air System Maintenance in this environment.

Additional AMC - MMOs only

19. In derogation to Paragraphs 13-17, an MMO can be required to conduct Maintenance at austere locations or in harsh environments. In such instances, the individual appointed as the relevant Maintenance Manager³ or, in **▶their◀** absence, **▶their◀** authorized representative **should** put in place measures to mitigate the risk of environmental conditions having a detrimental effect on Maintenance standards such that risk remains As Low As Reasonably Practicable (ALARP) and Tolerable.

Additional AMC - AMOs only

20. Nil.

³ Refer to RA 4806(2): Personnel Responsible to the Accountable Manager (Maintenance) (MRP 145.A.30(b)).

**Guidance
Material
4805(3)**

Working Environment (MRP 145.A.25(c))

Common GM

21. Specific Maintenance tasks may require the application of specific environmental conditions different to the requirements at Paragraph 17; such conditions will be identified in the Technical Information and ► **will** ◀ be observed.

Additional GM - MMOs only

22. While Paragraph 19 provides some flexibility for MMOs, the requirements of this Regulation must be adhered to as far as is practicable.

Additional GM - AMOs only

23. Nil.

**Regulation
4805(4)**

Storage Facilities (MRP 145.A.25(d))

4805(4) The organization **shall** ensure that secure storage facilities are provided for components, equipment, tools and material that ensure segregation of serviceable components and material from unserviceable Air System components, material, equipment and tools. The conditions of storage **shall** be in accordance with the instructions of the manufacturer, or other applicable MOD instructions, to prevent deterioration and damage of stored items. Access to storage facilities **shall** be restricted to authorized personnel.

**Acceptable
Means of
Compliance
4805(4)**

Storage Facilities (MRP 145.A.25(d))

Common AMC

24. Storage facilities for serviceable Air System components **should** be clean, well ventilated and maintained within a suitable temperature range to minimize the effects of condensation unless the use of Type Airworthiness Authority approved special-to-contents containers permits storage in alternative conditions. Manufacturer's storage recommendations **should** be followed for those Air System components identified in such published recommendations.

25. Storage racks **should** be strong enough to hold Air System components and provide sufficient support for large Air System components such that the component is not damaged, scratched or distorted during storage; protective matting or equivalent can be used if necessary.

26. All Air System components, wherever practicable, **should** remain packaged in protective material to minimize damage and corrosion during storage.

Additional AMC - MMO Only

27. In reference to paragraphs 24-25, MMOs operating at deployed or austere locations **should** adhere to these requirements as far as practicable.

Additional AMC - AMO Only

28. Nil.

**Guidance
Material
4805(4)**

Storage Facilities (MRP 145.A.25(d))

29. Nil.