

NPA/25/40

**Title of Proposal:** Quinquennial Review

**RA(s) or Manual Chapter(s):** RA 3274

**Organizations and / or business sectors affected:** RC

**RFC Serial No:** MAA/RFC/2024/062, 2022,067, 2021/156

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N/A	N/A	N/A	Choose an item.

## 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:** A quinquennial review has been conducted. Amendments have been made to promote best practice and accuracy. This has included some superfluous content being removed to aid conciseness and removing duplication from provenance documentation. Some content has been moved around to enable clarity of content. RFCs have been included.

Rationale: Amended to abide by Context Hazard Defence format.

Reg (1): RFC inclusion.

Para 1: Reworded and restructured for clarity.

Para 2: Reworded for clarity.

Para 3: Reworded and restructured for clarity.

Para 4: Reworded and restructured for clarity.

Para 5: Reworded and restructured for clarity.

Para 6: Updated RVR value.

Footnote 4: Reworded for clarity.

Para 7: Superfluous content removed. Additional wording added to solidify the requirement.

Para 9b(3): updated RVR value.

Para 15: Wording amended for clarity.

Para 16: Large amounts of wording removed in lieu of reference to MAA02. Definitions had been duplicated. Now signposted to the Master Glossary.

**Impact Assessment:** Training / Equipment / Personnel / Information / Doctrine and Concepts / Organization / Infrastructure / Logistics (TEPIDOIL)

T - N/A

E – N/A

P – N/A

I – N/A

D – N/A

O – N/A

I – N/A

L – N/A

**Consultation Period Ends: 9 January 2026**

The consultation period for this proposed amendment ends on the stated date. Please send your feedback, using the Response Form, via email to [DSA-MAA-MRPEnquiries@mod.gov.uk](mailto:DSA-MAA-MRPEnquiries@mod.gov.uk)

*MAA Approval*

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## RA 3274 - Low Visibility Procedures

### Rationale

► *It is a requirement of our operations to facilitate activity in Low Visibility conditions.*  
 ◄ *Air System operations during reduced visibility or low cloud conditions create additional operating Hazards and ► a potential increase in Risk to Life. Therefore it is a requirement to implement appropriate ◄ measures to mitigate the associated Hazards.*

### Contents

#### 3274(1): Low Visibility Procedures

### Regulation 3274(1)

#### Low Visibility Procedures

3274(1) Aviation Duty Holder (ADH) ► **-Facing Organizations** ◄ and Heads of Establishment (HoE) **shall** have Low Visibility Procedures (LVP) ►<sup>1</sup> ◄ at Aerodromes that operate in weather conditions where Air Traffic Control (ATC) are not always able to maintain full visual control of the Movement Area.

### Acceptable Means of Compliance 3274(1)

#### Low Visibility Procedures

1. Aerodrome operators **should** develop LVP utilizing extant Safety Management processes<sup>2</sup> ► to:
  - a. **Limit unnecessary access to the Movement Area.**
  - b. **Determine the movement rate that can be sustained and the LVP that will adequately support this rate.** ◄
2. **Visibility Conditions.** The point at which LVP are initiated will vary ► **between Aerodromes** ◄ and **should** be clearly defined in relation to Runway Visual Range (RVR) / visibility conditions, as detailed in RA 3275<sup>3</sup>.
3. **Declaration of LVP in Force.** ► ◄ LVP measures ► **should** ◄ be verified as in place before LVP are declared to be in force by ATC. In the event of suitable gaps in flying operations, some LVP measures can be relaxed to allow efficient use of resources; such procedures **should** be detailed in Local / Unit orders.<sup>4</sup> All LVP measures **should** be verified as in place prior to the resumption of flying operations. When flying is in progress, LVP **should** be declared as cancelled before the Aerodrome Operator withdraws any measures.
4. **Conversion of Reported Meteorological (Met) Visibility to RVR.** At Aerodromes where RVR measurements are not made, ► **or when RVR measuring equipment is unserviceable** ◄, LVP **should** include criteria for implementation and withdrawal based on the reported Met visibility<sup>3</sup>.
5. **Aerodrome and Runway Incursions.** ► ◄ During periods of low visibility the likelihood of Aerodrome and Runway Incursion may ► ◄ increase ►; **therefore** ◄ personnel **should** report all Aerodrome and / or runway incursions in accordance with (iaw) RA 1410<sup>5</sup>.
6. **Precision Instrument Approach LVP Operations.** As the RVR deteriorates to the minimum at which Category (Cat) I precision approaches can be made (typically below ► **550** ◄ m but the exact value is determined by a variety of factors); or the cloud Ceiling reduces to 200 ft, the withdrawal of non-essential vehicles and personnel from the Manoeuvring Area **should** be completed.

<sup>1</sup> ► [Civil Aviation Publications \(CAP\) 168](#) Appendix 2B Low Visibility Operations and International Civil Aviation Organization (ICAO) Doc 9476 Manual of Surface Movement and Guidance Control Systems, Chapter 5. [European Union Aviation Safety Agency \(EASA\) EU139/2014 Annex II Part-ADR](#) also refers. ◄

<sup>2</sup> Refer to RA 1200 – Air Safety Management.

<sup>3</sup> Refer to RA 3275 – Runway Visual Range.

<sup>4</sup> Military ► **variances are** ◄ less stringent than the civilian equivalent for continuous LVP in CAP 168 - Licensing of Aerodromes.

<sup>5</sup> Refer to RA 1410 – Occurrence Reporting and Management.

**Acceptable  
Means of  
Compliance  
3274(1)**

7. **Approach End Barrier**<sup>6</sup>. In low visibility conditions ►◄ when LVP are declared, the approach end barrier **should** be ►lowered, confirmed as down and◄ isolated.
8. **Wildlife Control Operations**. Wildlife control operations **should** continue during LVP, but procedures **should** ensure that adequate time between movements is afforded to permit wildlife control measures to be implemented iaw RA 3270<sup>7</sup>.

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3274(1)**

**Low Visibility Procedures**►◄

9. Visibility Conditions – Guidelines:
- a. **Visibility Condition 1**. Is defined as visibility sufficient for the pilot to taxi and to avoid collision with other traffic on taxiways and at intersections by visual reference and for ATC personnel to exercise control over all traffic on the basis of visual surveillance. No additional requirements for the protection of ground operations by Air Systems are required.
  - b. **Visibility Condition 2**. Is defined as visibility sufficient for the pilot to taxi and avoid collision with other traffic on taxiways and at intersections by visual reference, but insufficient visibility for ATC to control traffic by visual surveillance. The actions required will be dependent on the dimensions of the Movement Area and position of the Visual Control Room (VCR):
    - (1) Procedures and visual aids will allow the pilot to determine their position and follow the required route. However, measures will need to be put in place to limit the potential for undetected Aerodrome incursions, such as limited taxi routing, Surface Movement Radar (SMR) and stop-bars or physical barriers at Runway access points.
    - (2) When the visibility decreases to a value equivalent to 1000 m RVR, and is expected to fall further, the withdrawal of vehicles and personnel involved in construction, Maintenance and other non-essential activities on the Manoeuvring Area will normally be initiated. Routine Maintenance on visual and non-visual aids may be suspended and the Instrument Landing System (ILS) and / or Precision Approach Radar (PAR) Sensitive Area will be cleared of all traffic.
    - (3) As the RVR deteriorates to ►550◄ m, or the Cloud Ceiling reduces to 200 ft, all activities on the Manoeuvring Area will be brought under specific control by ATC (eg all activities subject to individual clearances as opposed to unrestricted movement).
  - c. **Visibility Condition 3**. Is defined as visibility equivalent to an RVR of less than 400 m. In such visibility conditions it is likely to be necessary to restrict further the operation of vehicles and persons on the Movement Area and initiate stringent control measures in response to the individual unit requirement.
10. **Hazards**. The following scenarios may be considered during the Safety Management process to ensure that the Hazards associated with LVP are managed appropriately:
- a. Human error leads to an Air System using the Runway whilst it is occupied by another Air System, vehicle or pedestrian that may be unsighted due to low visibility.
  - b. The Air System uses the Runway whilst wildlife or Foreign Object Damage / Debris (FOD) is undetected on the surface due to low visibility.
  - c. Air Systems operating on taxiways / dispersals / Aprons are unable to apply adequate separation from other Air Systems and / or vehicles due to low visibility.
  - d. Inadvertent barrier selection whilst an Air System is on Final Approach, undetected due to low visibility.

<sup>6</sup> Refer to RA 3268 – ►Aircraft◄ Arresting Systems.

<sup>7</sup> Refer to RA 3270 – Aerodrome Wildlife Control.

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e. Delayed Aerodrome rescue and fire fighting (ARFF) response to an Air System Incident or Accident due to low visibility. Although it is unlikely that ARFF response time will be significantly affected in visibilities down to 200 m, temporary relocation of vehicles to strategic points may be necessary for a large or complicated Aerodrome. In visibility below 200 m there is greater probability that response times will be affected.

11. **Vehicular and Air System Controls.** The following control measures may be considered:

a. Reducing vehicular access and use of the Movement Area. This could be introduced in stages as weather conditions deteriorate, and may include the suspension of non-essential working parties on the Aerodrome at an appropriate point or temporarily closing defined parts or all of the Movement Area to vehicular traffic.

b. The enforcement of positive control measures for essential Aerodrome vehicles, following the suspension of non-essential activity, to include: positive radiotelephony (RT) clearances before entry onto the Movement Area; and subsequent separation of vehicles and Air System movements through positive control:

- (1) By informing vehicles and Air Systems of each other's presence, or;
- (2) Only allowing one Air System or vehicle on segmented sections of the Movement Area at a time.

c. The enforcement of vehicles to use dipped headlights when LVP are declared and the application of appropriate reduced speed limits.

d. Applying a simplified taxi pattern where possible, restricting the use of crossing or converging active taxiways, back-tracking of Runways etc.

e. Reducing the number of Air Systems on the Manoeuvring Area at the same time, alternatively, the Manoeuvring Area could be segmented with only one Air System / vehicle allowed into each segment at a time, using taxi / driving clearance limits.

f. The use of a 'follow me' vehicle to guide Air Systems to or from the Runway to reduce the potential for Aircrew to take incorrect routings. This could be applied to all Air System movements or limited only to unfamiliar visiting Air System. This measure is particularly relevant at Aerodromes with complicated taxi patterns and increased potential for error.

g. Increased vehicular inspections of the Runway to reduce the potential for unknown obstructions or FOD to be on the surface.

h. Vehicles positioned at Runway threshold Holding Points and key holding / crossing points to help prevent Runway Incursions and to promptly report those that do occur to ATC.

12. **SMR.** SMR may be provided at Aerodromes with Instrument Approach aids that enable operations in RVR conditions below 550 m<sup>8</sup>. Unless procedures limit the number of Air Systems either on the Manoeuvring Area or on Final Approach within 5 nm, to one at any given time, and robust physical and procedural measures are in place to control the access of vehicles onto the Movement Area.

13. At Aerodromes that are limited by Instrument Approaches with minimum RVR conditions of 550 m, SMR may still be required and may be considered where traffic density and operating conditions are such that acceptable levels of Safety cannot be provided by alternative procedures and physical measures.

14. **Stop-Bar Lighting.** Stop-bars are highly effective in RVR conditions of less than 800 m, however the use of stop-bars in all lighting conditions ►needs◄ to be considered, as Runway Incursions are not limited to low visibility conditions. Aerodromes with Cat I and Cat II precision Instrument Approaches or take-off in RVR

<sup>8</sup> ICAO Annex 14 currently recommends the provision of SMR at Aerodromes where operations in RVR less than 400 m take place. Multilateration based systems are an acceptable alternative within Surface Movement Guidance and Control Systems (SMGCS).

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less than 800 m may consider the benefits of installing stop-bar lighting systems to enhance the effectiveness of their LVP. The specification for stop-bar lighting is detailed in RA 3515(18)<sup>9</sup>.

15. **Runway Guard Lights.** Runway Guard Lights are highly effective in RVR conditions less than 1200 m, however the use of Runway Guard Lights in all lighting conditions ►needs◄ to be considered, as Runway Incursions are not limited to low visibility conditions. Aerodromes with Cat I and Cat II precision Instrument Approaches, non-precision approaches or take-off in RVR less than 1200 m may consider the benefits of installing Runway Guard Lights to enhance the effectiveness of their LVP. The specifications for Runway Guard Lights are detailed in RA 3515<sup>10</sup>.

►◄

16. ►The following terms are useful when discussing LVPs. They are defined in MAA02:<sup>11</sup>

- a. Runway Incursions.
- b. Aerodrome Movement Area Incursion.
- c. Protected Area.
- d. Critical Area.
- e. Sensitive Area.◄

17. **Precision Instrument Approach LVP Operations.** Precision ►Approach Categories are defined in MAA02 under Precision Approach Runway.◄

- a. ►◄
- b. ►◄

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<sup>9</sup> Refer to RA 3515(18): Taxiway Lights – Stop Bar Lights.

<sup>10</sup> Refer to RA 3515 – Permanent Fixed Wing Aerodrome - Lighting.

<sup>11</sup> Refer to MAA02: MAA Master Glossary.