



**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Air Traffic Organization Policy**

**ORDER
JO 6560.31
CHANGE 4**

(Formerly 6560.31)

Effective Date:
03/20/2008

SUBJ: Maintenance of Runway Visual Range (RVR) Equipment Type FA-10268

1. Purpose. This change transmits revised pages to Order JO 6560.31, Maintenance of Runway Visual Range (RVR) Equipment Type FA-10268. This directive implements Configuration Control Decision (CCD) No. N31501, Calibration of the Ambient Light Sensor in Low Ambient Light or Inclement Weather Conditions.

2. Who This Change Affects.

- a. This document is made available to sites with this Facility, Service, and Equipment Profile (FSEP): RVR.
- b. For electronic copies, use the Technical Library website at <http://nas.amc.faa.gov>.
- c. For printed copies, national offices distribute to sites with an accurate inventory record in FSEP and a mailing address in the Direct Distribution System (DDS).
- d. For help in updating inaccurate FSEP and/or DDS records, visit our website at http://nas.amc.faa.gov/technical_library/template.jsp?bodyPage=help.html&title=Help.

3. Explanation of Changes. This change affects Chapter 3 “Standards and Tolerances” paragraph 341 b(2). The standard for the corrected ambient light level has been lowered from 500 foot-Lamberts to 200 foot-Lamberts. Information is provided on what to do when the new standard cannot be achieved.

4. Disposition of Transmittal. Keep this change.

PAGE CONTROL CHART

| Remove Pages | Dated | Insert Pages | Dated |
|--------------|-----------|--------------|------------|
| 13 and 14 | 4/24/2002 | 13 | 04/24/2002 |
| | | 14 | 03/20/2008 |

For Richard A. Thoma
Director, Safety and Operations Support

STANDARDS AND TOLERANCES (Continued)

| <i>Parameter</i> | <i>Reference Paragraph</i> | <i>Standard</i> | <i>Tolerance/Limit</i> | |
|--|----------------------------|-----------------|------------------------|-------------------|
| | | | <i>Initial</i> | <i>Operating</i> |
| b. High Range Input (20.0 A). | | | | |
| (1) Step 0 | | 0.0 V ac | 0.0 to 2.25 V ac | Same as initial |
| (2) Step 1 | | 8.2 V ac | 7.35 to 8.95 V ac | Same as initial |
| (3) Step 2 | | 10.0 V ac | 9.05 to 10.95 V ac | Same as initial |
| (4) Step 3 | | 12.5 V ac | 11.05 to 13.90 V ac | Same as initial |
| (5) Step 4 | | 15.5 V ac | 14.00 to 17.00 V ac | Same as initial |
| (6) Step 5 | | 20.0 V ac | 17.10 to 21.95 V ac | Same as initial |
| → c. RLIM Indications | 6.5b(6) | No errors | Same as standard | Same as initial |
| 341. ALS/SIE. | | | | |
| a. Calibration | | | | |
| | 6.10.1 Table 2-3 | | | |
| (1) High range gain (fl/V)..... | | 3000 | Same as standard | Same as initial |
| (2) Low range gain (fl/V) | | 30 | Same as standard | Same as initial |
| → b. Calibration Verification | 6.10.1.1 Table 2-3 | | | |
| (1) Zero plug installed. | | | | |
| * Corrected ambient light (fl) | | 0.0 fl | ≤0.5 fl | Same as initial * |

STANDARDS AND TOLERANCES (Continued)

| Parameter | Reference Paragraph | Standard | Tolerance/Limit | |
|--|---------------------|------------------------|------------------|-----------------|
| | | | Initial | Operating |
| * (2) Plug removed (daylight). | | | | |
| (a) Corrected ambient light (fl)..... | | ≥200fl | Same as standard | Same as initial |
| Note: If unable to achieve 200fl under current weather conditions, then RVR product accuracy can be evaluated in accordance with paragraph 344 provided the unit has been calibrated and the measured voltage signals VBL and VDL are less than 10 volts at their respective test points. | | | | |
| (b) Window contamination (WC) | | 0% | ±3% | Same as initial |
| (c) WINDOW-CONTAM..... | | 0% | ≤3% | Same as initial |
| 342. VS/SIE. | | | | |
| a. Calibration | 6.10.2 | | | |
| (1) High range extinction coefficient..... | | Value printed on plate | ± 5% | Same as initial |
| (2) Low range extinction coefficient | | Value printed on plate | ± 3% | Same as initial |
| → b. Calibration Verification | 6.10.2.1 | | | |
| (1) DPU/SIE communication..... | | OK | Same as standard | Same as initial |
| (2) Low range extinction coefficient | | Value printed on plate | ±3% | Same as initial |
| (3) TX window contamination (TWC) | | 0.0% | ±3% | Same as initial |
| (4) RX window contamination (RWC)..... | | 0.0% | ±3% | Same as initial |
| (5) High range extinction coefficient..... | | Value printed on plate | ±5% | Same as initial |
| (6) TX WINDOW CONTAM..... | 7.6.4 | 0.0 | ≤3.0% | Same as initial |
| (7) RX WINDOW CONTAM..... | 7.6.4 | 0.0 | ≤3.0% | Same as initial |

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