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Test Monitoring Center

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L-60-1 Information Letter 25-1
Sequence Number 56
July 28, 2025

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: L-60-1 Surveillance Panel

SUBJECT: Updated Requirement for Air Flow Controller and Calibration Flow Meter

During a conference call held on July 2, 2025, the L-60-1 Surveillance Panel approved an amendment to multiple sections of the test procedure detailing the air flow controller and calibration flow meter requirements, ultimately removing the single-source requirement. Procedure sections 6.1.9, 8.10.1, 8.10.2, and 8.10.3 will be updated as outlined on the following page. Footnote #17 will also be removed. This change is effective July 2, 2025.

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L-60-1 Surveillance Panel

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Executive Director
ASTM Test Monitoring Center

Attachments

cc: https://www.astmtmc.org/ftp/docs/gear/l601/procedure_and_ils/il25-1_L601.pdf

Distribution: Email

(Revises Test Method D 5704-24, as modified by Information Letter 24-1)

Replace the text of section 6.1.9 with the following:

6.1.9 *Air Flow Controller*—The air flow controller shall be capable of controlling the air supply at a flow rate of 22.08 mg/min ± 2.01 mg/min (see Note 1). Sierra Instruments, Inc. air flow controller model number 840-L-1 has been found acceptable for this purpose by the committee.

Replace the text of section 8.10.1 with the following:

8.10.1 As a standard for all air flow controller calibrations, use a second calibrated flow meter that is traceable to a known standard. The second air flow meter will be referred to as the "calibration flow meter." Calibrate the calibration flow meter to a traceable national standard at least once every year at a flow rate of 22.08 mg/min ± 2.01 mg/min at the outlet with 30 psig ± 1 psig (206 kPa ± 7 kPa) inlet pressure. Sierra Instruments, Inc. Top Trak model number 822S-L-2-OV1-PV1-V1-SCR2700 or 822S-L-2-OV1-PV1-V4-SCR2700 air flow meter (these model numbers supersede 822S-L-2-OV1-PV1-V1-A1 and 822S-L-2-OV1-PV1-V4-A1, respectively) has been found acceptable for this purpose by the committee.

Replace the text of section 8.10.2 with the following:

8.10.2 Prior to initiating a test stand calibration run, connect the calibration flow meter to the inlet of the test stand's air flow controller. Connect the test stand's air flow controller outlet to the gear box. Install an air pressure measurement device to monitor and regulate air pressure to the inlet of the calibration flow meter to 30 psig ± 1 psig (206 kPa ± 7 kPa). Charge the gear box with a commercial 80W-90 grade oil and bring to test conditions (325 °F ± 1 °F (162.8 °C ± 0.5 °C) at 1750 r/min ± 50 r/min). Adjust the test stand's air flow controller until its controlled flow matches that displayed by the calibration flow meter. Remove the calibration flow meter after completing the calibration.

Replace the text of section 8.10.3 with the following:

8.10.3 Determination of the need to repeat air flow controller calibration following an unsuccessful test stand calibration run is at the discretion of the testing laboratory.

Remove footnote #17 and renumber footnotes accordingly.