



AEROSPACE RECOMMENDED PRACTICE

ARP6196™

REV. A

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Superseding ARP6196

Gas Turbine Engine Test Facility Audit Process

RATIONALE

This document has been updated to align some terms with ARP5758 and ARP6028 and to include recommendations regarding records of test facility events and cybersecurity. Test facilities are frequently audited by various authorities, regulatory bodies, gas turbine engine OEMs, and customers. The main purpose of the audit process is to ensure that the test cell operator/owner provides evidence that the facility is maintained in such a way that it meets the requirements set by the OEM and authorizing bodies and that the test cell meets the conditions set in the correlation process.

This document describes guidelines and criteria to audit a test facility both from an auditor perspective in addition to the user/owner's perspective.

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1. SCOPE

This SAE Aerospace Recommended Practice (ARP) provides recommendations for:

- The audit process in general
- A list of specific areas of attention to be audited
- Maintaining the test facility in such a manner that it meets audit requirements

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

ARP741 Turbofan and Turbojet Gas Turbine Engine Test Cell Correlation

ARP5758 Trend Analysis for Maintaining Correlation of Gas Turbine Engine Test Cells

ARP6028 Configuration Control for Maintaining Correlation of Gas Turbine Engine Test Cells

2.1.2 FAA Publications

Available from Federal Aviation Administration, 800 Independence Avenue, SW, Washington, DC 20591, Tel: 866-835-5322, www.faa.gov.

AC 43-207 Correlation, Operation, Design, and Modification of Turbofan/Jet Engine Test Cells

2.1.3 A4A Publications

Available from Airlines for America (A4A), 1301 Pennsylvania Avenue, NW, Suite 1100, Washington, DC 20004, Tel: 202-626-4000, www.airlines.org.

ATA Spec 103 Standard for Jet Fuel Quality Control at Airports

2.1.4 ISO Publications

Copies of these documents are available online at <https://webstore.ansi.org/>.

ISO 9001 Quality Management Systems

2.1.5 Other Publications

Kinnison, H.A. and Siddiqui, T. (2013). *Aviation maintenance management (2nd edition)*. McGraw-Hill.

Juran, J.M. (1988). *Juran's quality control handbook*. McGraw-Hill.