

One world.
One standard.
One source.



Technical Standards Development Program 2006

The Case for Corporate Support



A global business partnership

The SAE International Technical Standards Development Program

Gone are the simpler days of the very earliest one-man flying machines. After more than a century of flight, aerospace companies today operate at enterprise status creating a marketplace of international partnerships and collaborations. Products are developed for global design, build, and support. And as industry goes so must its standards: *global*.

Today's international aerospace standards derive from the harmonization of fractured and regionalized standards development systems, and industry is paying the price. After-the-fact resolution of competing standards or the reliance on good fortune for a single standard to gain "de facto" global status reflect the choices of industry's past. We must choose wisely our future path.

We must choose true global standards development—a consensus-based process which begins and ends with international participation, collaboration, and support. This *is* the SAE standards development process.

As author and owner of more internationally adopted aerospace standards than any other standards development organization, when you choose SAE, you choose more than a standards provider. You choose a strong global business partner. And, you join a family of very dedicated people who have a long legacy of tradition and reliability and who are committed to a better tomorrow for a better industry.

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Plan now for your
Corporate Support
of the SAE International
Technical Standards
Development Program—
renew or begin your
commitment of financial
resources and technical
staff for the 2006
program year.

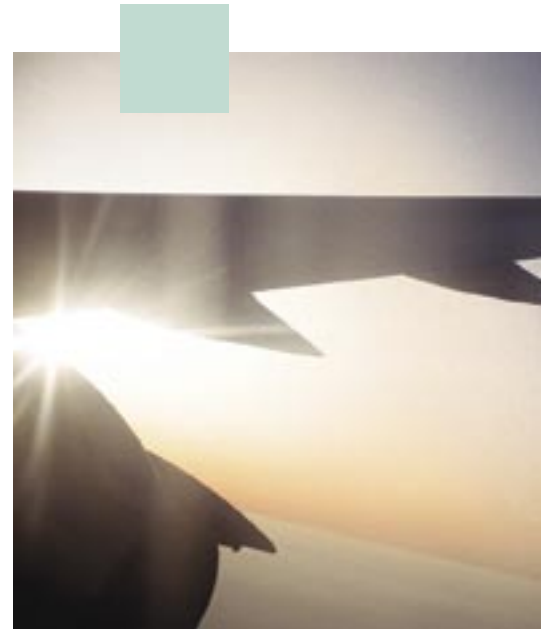
Corporate Support

Technical Committee Participation

Rare in business today is the aerospace industry's shared understanding of the need for both cooperation and competition. It is through the Technical Committees of the SAE standards development program that competitors, customers, and suppliers alike come together in the spirit of cooperation, seeking common solutions to their common challenges. SAE provides the neutral and open business forum so essential for consensus-based global advancement.

The strategic participation of your senior technical staff on select committees is your corporate means to help shape and drive through technical solutions for the full supply chain. At the standards table, the most tangible of requirements, recommendations, best practices, specifications, and more are debated, developed, balloted, published, and put into play worldwide. Here, your experts—those who understand what is needed to keep your company technically superior in a highly competitive global marketplace—have opportunity to influence the development of specific industry documents that can directly impact the success of your company.

While the technical standards program accomplishes the official and very serious task of moving industry forward, its committee forum also serves as an informal place of business. With access to well-credentialed industry colleagues, your participating staff have those important networking opportunities that can help foster future business partnerships. Within the committee forum participants can also gain insight to the competition and the changing regulatory landscape.



One World.
One Standard.
One Extraordinary Opportunity.

Committee Member status carries with it the power of the vote and responsibility for shaping committee business. Other participants are encouraged to attend committee meetings, contribute their knowledge and effort to works-in-progress, suggest new projects, and network with colleagues. All qualified industry volunteers are eligible to sponsor/author new and revised documents.

There are more than 250 aerospace technical committees, subcommittees and task groups. Explore participation options for your staff at:

www.sae.org/standardsdev/aerospace



Corporate Support

Corporate Funding

The Technical Standards Development Program is made possible in large part by the corporate contributions of these distinguished aerospace organizations. Join them. Let us help you plan now for *your* 2006 corporate funding contribution.

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Federal Aviation Administration
Fiber Systems International
FMC Airport Systems
GE Aircraft Engines
Glenair, Inc.
Global Ground Support
Goodrich Corporation
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Contact Us

SAE International
Aerospace Standards
Corporate Funding
1-724-772-8511
standardsfunding@sae.org

Your corporate contribution waives all committee meeting fees for your participating employees around the world for the full calendar year.

Highlights

of the SAE Aerospace Technical Standards Development Program

SAE International to aid defense industries in standards globalization

As part of the opening ceremonies of the 2005 **Department of Defense** Standardization Conference, **SAE International** and the **NATO Standardization Agency (NSA)** signed a technical cooperation agreement for the development and publication of global standards for the defense industries in the 26 nations of the North Atlantic Treaty Organization.

Under the new agreement, NSA now introduces work items for SAE Technical Committees, and provides expert advice and technical consultation on the development of proposed standards. New standards and related documents resulting from the SAE/NSA cooperative agreement will be published by SAE. The wide-ranging agreement also establishes a framework for other SAE/NSA activities such as: information exchanges on standards; educational programs to raise competency in standardization; and conferences, symposia, or other joint meetings.

Specifications growing for composite materials in new aircraft

With the development of new and innovative aircraft such as the **Airbus A380** and **Boeing 787**, the amount and variety of composites used on aircraft is steadily increasing. As the technology for these materials matures, so does the need for standards to ensure quality, improve safety, and enhance maintenance capabilities. Two SAE technical committees are addressing industry needs for composites specifications. The SAE AMS-P-17 Composites subcommittee is developing standards and other documents for carbon fiber prepreps. The SAE AMS-CACRC (Commercial Aircraft Composite Repair Committee) has work items in specifications for glass and carbon fiber repair materials.

Safety

Composites



Maintenance

Deicing

Some Recent Important Publications

of the SAE Aerospace Technical Standards Development Program

Publication
Issuing Technical Committee

AS9132 Data Matrix Quality Requirements for Parts Marking
G-14 Americas Aerospace Quality Group (AAQG)

AMS2759/3D Heat Treatment Precipitation-Hardening Corrosion-Resistant and Maraging Steel Parts
AMS F Corrosion & Heat Resistant Steels & Alloys Committee and Aerospace Metals and Engineering Committee (AMEC)

AIR4766/1 Air Quality for Commercial Aircraft Cabin Particulate Contaminants
AC-9 Aircraft Environmental Systems Committee

AS8056 Minimum Design and Performance of Airplane Galley In-Flight Carts, Containers, and Associated Components
S-9 Cabin Safety Provisions Committee

AS9111 Quality Management System Assessment for Maintenance Organizations
G-14 Americas Aerospace Quality Group (AAQG)

Since publishing its first aeronautical standard in 1917, the aerospace program today maintains more than 6,600 technical standards, material specifications, recommended practices, information reports, resource documents, and more.

ARP5416 Aircraft Lightning Test Methods
AE-2 Lightning Committee

ARP5533 Stationary Runway Weather Information Systems (In pavement)
G-15 Airport Snow & Ice Control Equipment Committee

AMS3284A Sealing Compound, Low Adhesion, for Removable Panels and Fuel Tank Inspection Plates
AMS-G9 Aerospace Sealing Committee

ARP1328B Aircraft Ground Support Equipment - Wind Stability Determination
AGE-2 Air Cargo & Aircraft Ground Equipment & Systems Committee

ARP5600 Disposition of Damaged Wheels Involved in Accidents/Incidents
A-5 Aerospace Landing Gear Systems Committee

(Continued on page 6.)

(Continued from page 5.)

ARP5293 Safety Considerations for Lasers Projected in the Navigable Airspace
G-10 Aerospace Behavioral Engineering Technology Committee

ARP9005 Aerospace Guidance for Non-Deliverable Software
G-14 Americas Aerospace Quality Group (AAQG)

AS4059E Aerospace Fluid Power - Cleanliness Classification for Hydraulic Fluids
A-6 Aerospace Actuation, Control and Fluid Power Systems Committee

AS5506 Architecture Analysis & Design Language (AADL)
AS-2 Embedded Computing Systems Committee

AIR5693 Compatibility of PTFE Hose Assemblies With Typical Fluids Found in Aerospace Applications
G-3 Aerospace Couplings, Fittings, Hose and Tubing Assemblies Committee

ARP36103 Air Cargo Unit Load Devices - Center of Gravity Control Methods
AGE-2 Air Cargo & Aircraft Ground Equipment & Systems Committee

ARP1533A Procedure for the Analysis and Evaluation of Gaseous Emissions From Aircraft Engines
E-31 Aircraft Exhaust Emissions Measurement Committee

AS5692 ARC Fault Circuit Breaker (AFCB), Aircraft, Trip-Free Single Phase 115 VAC, 400 Hz - Constant Frequency
AE-8 Aerospace Electrical/Electronic Distribution Systems Committee

AS20005 Design Standard For Drive - Type XV Engine Accessory
E-25 General Standards for Aerospace & Propulsion Systems Committee

ARP5149 Training Program Guidelines for Deicing/Anti-Icing of Aircraft on Ground
G-12 Aircraft Ground Deicing Committee

AIR5431 Repair Tooling
AMS-CACRC ATA/IATA/SAE Commercial Aircraft Composite Repair Committee

AS9104A Requirements for Aerospace Quality Management System Certification/Registrations Programs
G-14 Americas Aerospace Quality Group (AAQG)

AIR (Aerospace Industry Report)
ARP (Aerospace Recommended Practice)
AS (Aerospace Standard)
AMS (Aerospace Material Specification)

Standards expanding for safer airport operations

A new division is forming within the SAE Aerospace Standards Development Program in support of industry's growing demand for standards that help ensure safe and efficient airport operations. The new division, *Airport/Ground Operations and Equipment Division*, has within its initial committee organization: AGE-2 Air Cargo and Aircraft Ground Equipment and Systems; G-12 Aircraft Ground Deicing; and, G-15 Airport Snow and Ice Control Equipment.

Growing concern for air quality driving new standards

To provide consistency in the way it models emissions and noise in the vicinity of airports, the **U.S. Federal Aviation Administration (FAA)** has turned to **SAE International**. Having worked with the FAA and the **International Civil Aviation Organization (ICAO)**'s Committee on Aviation Environmental Protection (CAEP) to recently create and revise important noise measurement standards, the SAE A-21 Aircraft Noise Measurement Committee is forming a new subcommittee to similarly approach emissions measurement standards. This will help the FAA harmonize its noise and emissions modeling methodologies with international standards and regulation authorities. Such standards will be applicable in the operations and planning of airports worldwide.

Quality

Design



Tires

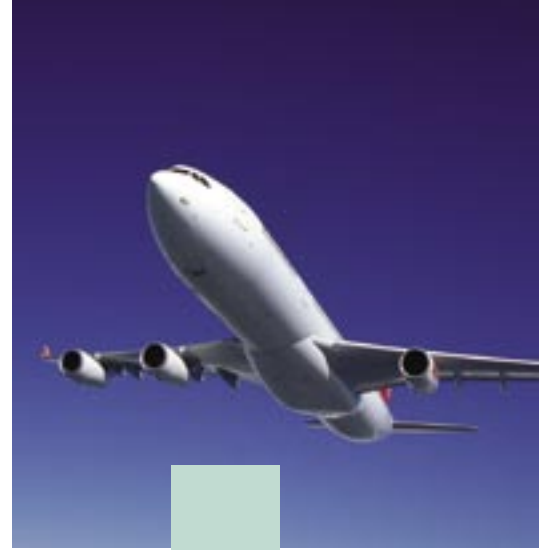
Environmental

Fuel Efficiency

A global network

for a vital, strong, and responsive standards program.

SAE maintains more than 6,600 aerospace technical standards, material specifications, and other resource documents. These works are authored, updated, and revised by the volunteer efforts of more than 6,000 engineers, engineering managers, and other qualified aerospace professionals from around the world. The full charter of their work is managed within the scopes of some 50 SAE Technical Committees with 200 plus subcommittees and task groups, all reporting to the SAE Aerospace Council.



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Performance Review Institute (PRI), an SAE International affiliate organization, provides international, unbiased, independent manufacturing process and product assessments and certification services for the mobility industry. Through its Nadcap program and the PRI Registrar, the organization facilitates business development between primes and suppliers, fostering competition while adding value and reducing costs for industry.

www.pri-network.org



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SAEAerospace

An SAE International Group

Access industry's reservoir of global aerospace standards

SAE Technical Standards enable for industry: component compatibility and interoperability; consistent product quality; regulatory compliance; diminished product liability; efficient procurement; and more. These are the building blocks of *your* company's operational success.

Whether you need standards updates annually, quarterly, or on demand... whether you use a limited, subject-specific set or require a broad array... if your access needs are frequent or occasional... include many users or limited staff—**SAE can deliver a customized standards access solution for your organization.**

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