

SAE INTERNATIONAL

SAE INTERNATIONAL STANDARDS- COUNTERFEIT AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION

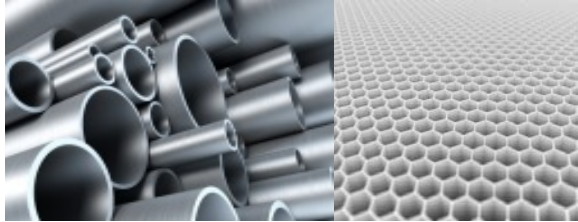
October 2013

Director, Washington Operations
SAE International
www.sae.org



SAE's main purpose is to collect, develop, and disseminate technical information related to mobility technology.

About SAE: Purpose



Materials

Environmental Standards



**Counterfeit Parts
Avoidance**

Standard Parts



Deicing

Human Factors



Military Avionics

**Integrated Vehicle
Health Management
(IVHM) & Reliability**

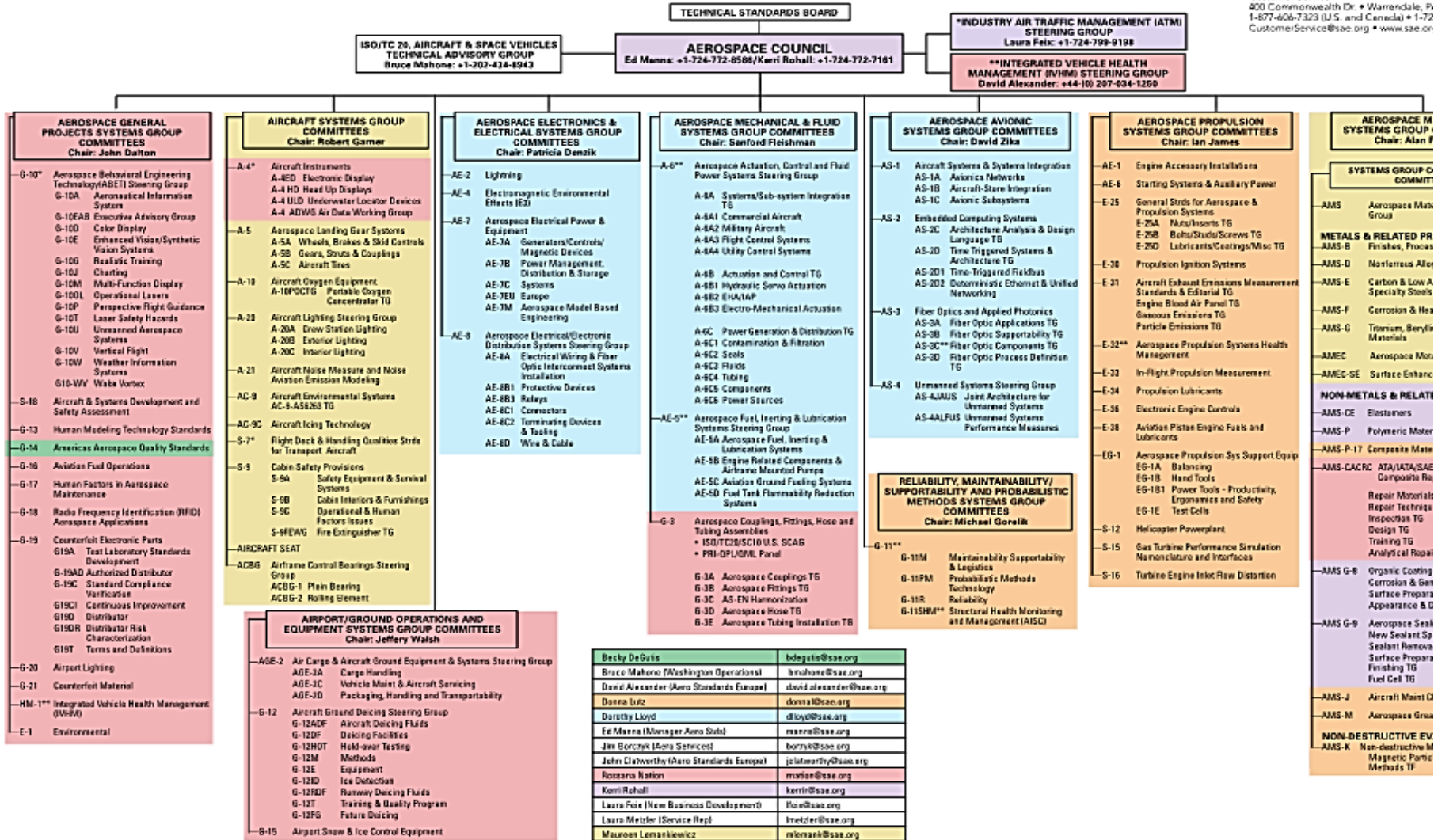


SAE Aerospace Council Organization Chart

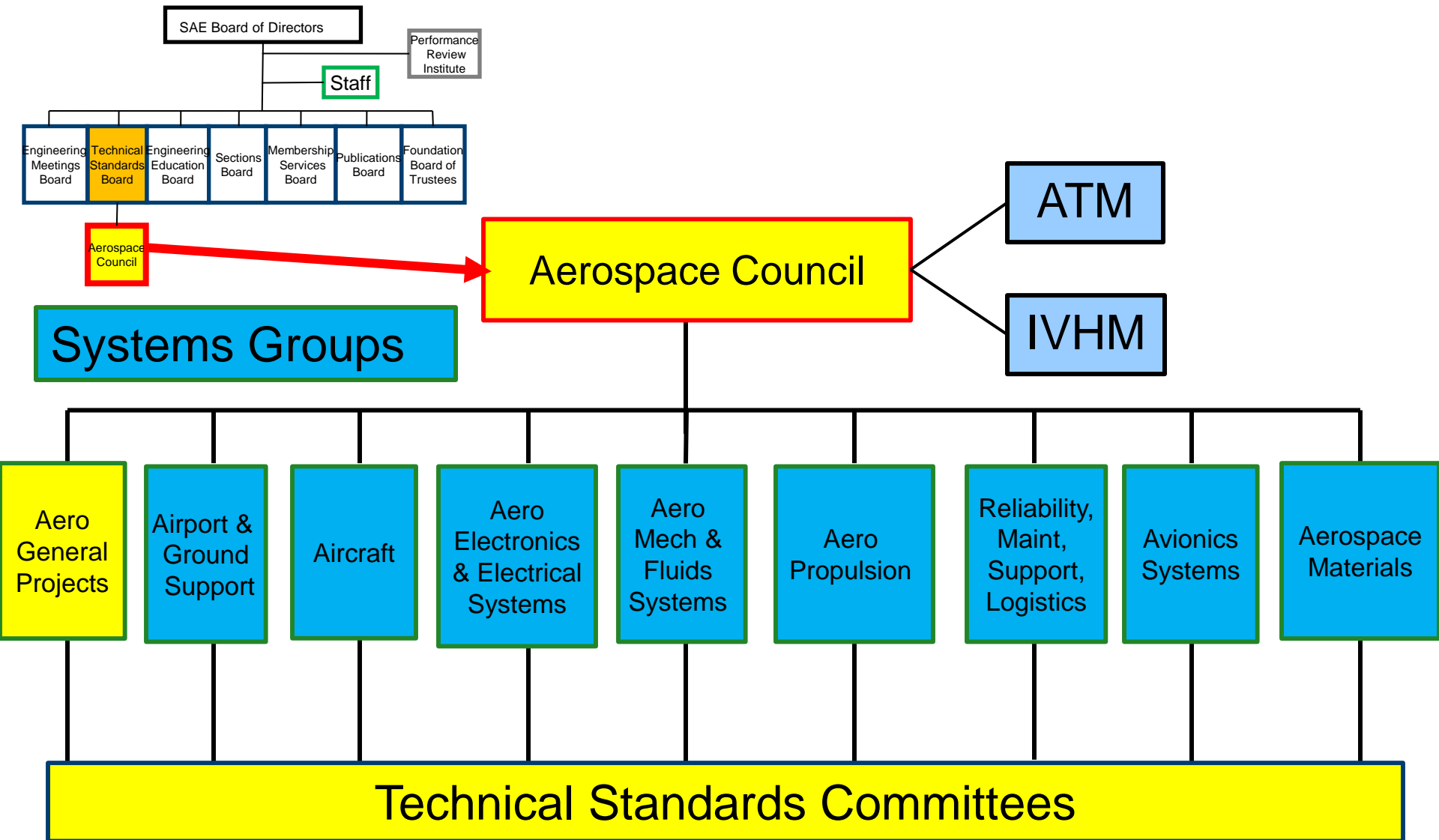
SAE Aerospace Council Organization Chart

SAE Internatio

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SAE Organizational Structure



G-19 & G-21 Counterfeit Prevention & Detection Standards



1. OEMS/Users of Electronics:
AS5553

2. OEMS/Users of Materiel (other than electronics): **AS6174**

3. Independent Distributors/Brokers of Electronics: **AS6081**

4. Authorized Distributors of Electronics: **AS6496**

5. Test Laboratories of Electronics: **AS6171**

SAE G-19 & G-21 Document Proposed Roadmap, September 2013

SAE Counterfeit Avoidance Steering Group

G-19 Counterfeit Electronic Components Committee Oversight

Phil Zulueta, SAE G-19 Chairman

G-21 Counterfeit Materiel Committee Oversight

Wayne Moss, Bob Tipton, SAE G-21 Co-Chairman

Auditor Competency (Asxxxx)

Proficiency Test Provider
(ISO/IEC 17043 Accredited)

Certification Body
(IAF & ISO/IEC 17021 Accredited)

Test Provider
(Accredited to ISO/IEC 17025 & Certified to AS9100 and/or ISO 9001)

Original Component Manufacturer
(Certified to AS9100 and/or ISO 9001)

Distributor
(Certified to AS9120 and/or ISO 9001)

Original Equipment Manufacturer/User/MRO
(Certified to AS9100 and/or AS9110 and/or ISO 9001)

Test Provider
(Certified to AS9100 and/or ISO 9001)

Operator(s) Certified to PT Scheme for Identified AS6171 Test Methods

**Authorized/
Franchised**

**Broker/
Independent**

AS6171, Test Methods Standard; Counterfeit Electronic Parts Document in progress. Dan DiMase & Sultan Lilani, Subcommittee Co-Chairman, Mike Megrđichian, Document Coordinator, SAE **G-19A**

Asxxxx, Compliance Standard or Guide (Includes Audit Checklist) Bill Scofield, Brian Worden - Subcommittee Co-Chairmen, SAE **G-19C**

Asxxxx, OCM Counterfeit Mitigation Subcommittee. Subcommittee Proposed. SIA, SRC Proposed Co-Chairpeople, SAE **G-19O**

Asxxxx, Compliance Standard or Guide (includes Audit Checklist) Bill Scofield, Brian Worden - Subcommittee Co-Chairmen, SAE **G-19C**

AS6496, Authorized Distributor Counterfeit Mitigation Sub-com. Document in progress Kevin Sink & Robin Gray Co-Chairman, SAE **G-19AD**

Asxxxx, Compliance Standard or Guide (Includes Audit Checklist) Bill Scofield, Brian Worden, Sub-com. Chairmen, SAE **G-19C**

AS6081, Counterfeit Electronic Parts Avoidance, ID's. Published 2012-11-7. Rev. A in progress Phil Zulueta Chairman, SAE **G-19D**

AS6301, Compliance Standard or Guide (includes Audit Checklist) Bill Scofield, Brian Worden, Sub-com. Chairmen, SAE **G-19C**

ARP6178, Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors. Worksheet and User Guide Published 2011-12-19 Dan DiMase & Fred Schipp, Subcommittee Co-Chairmen, SAE **G-19DR**

AS553A, Fraudulent/Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition. Issued 2009-04-02. Rev. A published 2013-01-21. Sarah Skinner, Subcommittee Chairperson, SAE **G-19CI**

AS6462, AS5553, Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition Verification Criteria Includes Audit Checklist. Published 2012-11-01. Rev. A in progress. Bill Scofield, Brian Worden - Subcommittee Co-Chairmen, SAE **G-19C**

AS6174, Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel Published 2012-05-09. Rev. A in development. Wayne Moss, Bob Tipton - Subcommittee Co-Chairmen. Materiel Subcommittee, SAE **G-21**

AS6174, Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel Commodity Slash Sheets in Rev. A document. Wayne Moss, Bob Tipton - Subcommittee Co-Chairmen. Materiel Subcommittee, SAE **G-21**

Asxxxx, Compliance Standard or Guide (Includes Audit Checklist) Bill Scofield, Brian Worden - Subcommittee Co-Chairmen, SAE **G-21C**

AIR6273, Terms and Definitions – Fraudulent/Counterfeit Electronic Parts Document in progress. Kirsten Koepsel, Subcommittee Chairperson, SAE **G-19T**

Asxxxx, Anti-Tamper and Transportation Security Subcommittee Proposed. TAPA, CBP, Express Carrier Proposed Co-Chairpeople, **G-19AT**

Published

In Development

Gap

- **Chartered in 2007 to address aspects of preventing, detecting, responding to and counteracting the threat of counterfeit electronic components. Participants included:**
 - Government
 - Defense/Aerospace Manufacturers
 - Industry Groups
 - Testing Laboratories
- **April 2009 - SAE International released aerospace standard AS5553, Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition**
- **August 2009 – United States Department of Defense adopted AS5553**

SAE G-19 Members

Government and Defense Members

- Defense Logistics Agency (DLA)
- Defense Contract Management Agency (DCMA)
- DOE - National Nuclear Security Administration (NNSA)
- DHS – Department of Homeland Security, Customs and Border Protection (CBP)
- Federal Aviation Administration (FAA)
- Intelligence Advanced Research Projects Activity (IARPA)
- Ministry of Defence (MoD), UK
- National Aeronautics and Space Administration (NASA)
- US Department of Defense (DOD)
- USAF/NRO (National Reconnaissance Office)
- USAF Wright Patterson Air Force Base (AFB)
- US Army - AMCCC Business Operations HQAMC
- US Army Aviation & Missile Command
- US Army Redstone Arsenal
- US Missile Defense Agency (MDA)
- US Navy - Naval Air Warfare Center
- US Navy - Naval Surface Warfare Center (NSWC)Crane
- US Navy - NAVSEA Crane
- US Navy, Submarine Maintenance Engineering, Planning and Procurement (SUBMEPP) Activity
- US Department of Transportation

Note: Members function as individuals intending to represent the best interests of the industry, and not as agents or representatives of any organization with which they may be associated

Participating Industry Associations ...

- ACLASS Accreditation Services
- Aerospace Industries Association (AIA)
- ANSI-ASQ Accreditation Board (ANAB)
- Component Obsolescence Group (COG)
- The Electronic Components Supply Network
- EIA Standards and Technology Electronic Components
- ERAI, Inc.
- Independent Distributors of Electronics Association (IDEA)
- Performance Review Institute (PRI)
- UK Electronics Alliance (UKEA)

SAE G-19 Industry Members

Adaptive Management Solutions
Aero Engine Controls
Aerojet Rocketdyne
Airbus Americas
American Electronic Resource
Analytical Alternatives
Analytical Solutions
Applied DNA Sciences
Arcadia Components
Ares Corp
Arrow Electronics
Astute Electronics
BAE Systems (Operations)
BAE Systems
Ball Aerospace & Technologies
Barnes Group Inc
Bechtel Plant Machinery
Beckman Coulter Inc
Bell Helicopter Textron
Boeing
Boeing Advanced Systems
Boston Scientific Corp
Business Quality Process Management
Business Trend LLC
CALCE University Of Maryland
Camcode
Celestica Corp. Technology & Engineering
China Aero-Polytechnology Establishment
Creative Electron Inc.
Crestwood Technology Group
Curtiss-Wright Controls
DA-Tech
Derf Electronics
Det NortskeVeritas (DNV)
DPA Components International
Dynamic Research & Testing Labs
ECC Corp
Electronic Supply Chain Solutions
Eltek Semiconductors
European Aeronautic Defence and Space Co

Focal Spot Inc.
General Dynamics
General Dynamics UK
GE Aviation
Glenbrook Technology
Goodrich Aerospace
Goodrich Control Systems
Greenberg & Bass
Harris Corp
Hi-Reliability Microelectronics
Hi-Rel Laboratories
Honeywell Aerospace
Honeywell Aerospace Electronic Systems
Honeywell Int'l
Honeywell Technology Solutions
Howard University
IEC Electronics Corp
Infineon Technologies AG
Integra Technologies
Intel
Jabil
Jacobs Engineering
Jet Propulsion Laboratory
L-3 Communications - CSW
Left Coast Technical Solutions
Lockheed Martin Aeronautics
Lockheed Martin Missiles & Fire Control
3M
Orbital Sciences
Plexus Corp
Process Sciences
Raytheon
Renesas Electronics Corp
Rochester Electronics
Rockwell Collins Inc
Rolls-Royce Corp
Sandia National Laboratories
Schlumberger HPS
Microram Electronics
Motronics Circuits International

Mouser Electronics
Plexus
Northrop Grumman
Premier Semiconductor Services
Niisu
Nisene Technology Group
Northrop Grumman Electronic Systems
N.F. Smith & Associates
NQA
Selex Galileo
Silicon Cert Laboratories
SMT Corp
Snell & Wilmer
SolTec Electronics
Sonix
Sonoscan
Star Associates International
Texas Instruments
Thales Group
The Aerospace Corp
The Electronic Components Supply Network
Trace Laboratories
TTI
TWI NDT Validation Center
UL DQS Inc
Underwriters Laboratories, UL DQS
UTC Aerospace
Vladimir SC Respect
Westland Helicopters
White Horse Laboratories
World Data Products
World Micro
Wyle Laboratories
Xilinx

G-19 Subcommittees Formed Since 2009

**G-19
Committee**

G-19 CI - Continuous Improvement Subcommittee
(AS5553A: Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition)

G-19 D - Independent Distributor Subcommittee
(AS6081: Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition; Independent Distribution)

G-19 AD - Authorized Distributor Counterfeit Mitigation Subcommittee
(AS6496: Counterfeit Electronic Parts Counterfeit Mitigation AD's)

G-19 DR - Distributor Risk Characterization Subcommittee
(ARP6178: Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors)

G-19 A - Test Laboratory Standards Development Subcommittee
(AS6171: Test Methods Standard; Counterfeit Electronic Parts)

G-19 C - Standards Compliance Verification Subcommittee
(AS6462: AS5553, Verification Criteria
AS6301: AS6081 Verification Criteria)

G-19 T - Definitions Task Group
(AIR6273: Terms and Definitions - Counterfeit Parts)

AS5553 - Counterfeit Electronic Parts; Avoidance, Detection, Mitigation and Disposition

SAE Aerospace <i>An SAE International Group</i>	AEROSPACE STANDARD	SAE AS5553
		Issued 2009-04
<i>Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition</i>		

RATIONALE

This standard was created in response to a significant and increasing volume of counterfeit electronic parts entering the aerospace supply chain, posing significant performance, reliability, and safety risks.

This standard was created to provide uniform requirements, practices and methods to mitigate the risks of receiving and installing counterfeit electronic parts.

PREFACE

To assure customer satisfaction, aerospace organizations must produce, and continually improve, safe, reliable products that meet or exceed customer requirements. The globalization of the aerospace industry and the resulting diverse global supply chain has complicated this objective. End-product organizations face the challenge of delivering products to customers worldwide. Suppliers purchased from suppliers throughout the world face the challenge of delivering products to customers worldwide.

“... created in response to a significant and increasing volume of counterfeit electronic parts entering the aerospace supply chain, posing significant performance, reliability, and safety risks.”

This document standardizes requirements for counterfeit avoidance, detection, mitigation, and disposition. Counterfeit parts are discovered.

SAE AS5553 and AS5553A Aerospace Standards

Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition

Purpose	Provide uniform requirements, practices and methods to mitigate the risks of purchasing and supplying counterfeit electronic parts
Target Audience	Original Equipment Manufacturers and Users/Integrators that purchase and/or manufacture products with electrical components
Uses	<ul style="list-style-type: none">• Requirements for developing a Counterfeit Parts Control Plan• Guidelines in the appendices for Counterfeit Mitigation industry best-practices• Compliance standard under development for the Rev. A
Status	<ul style="list-style-type: none">• AS5553 - Issued - April 2009 through G-19• AS5553A – Issued – January 2013 through G-19CI• Adopted by NASA in November, 2009• Adopted by DoD in August, 2009• Under revision by G-19CI Committee to AS5553B<ul style="list-style-type: none">➤ To be aligned with other G-19 Standards

Main Subjects Covered:

- **Fraudulent/Counterfeit EEE Parts Control Plan:**
 - Personnel Training
 - Parts Availability - Covered in Annex A
 - Purchasing Process - Appendix B
 - Assessment of Suppliers
 - Supply Chain Traceability - Appendix C
 - Verification of Purchased/Returned Part(s)
 - In-Process Investigation

Subjects covered continued

- **Fraudulent/Counterfeit EEE Parts Control Plan:**
 - Failure Analysis
 - Material Control - Appendix F
 - Reporting – Appendix G
 - Post Delivery Support
 - Acronyms and Abbreviations-Appendix H

SAE AS6081 – Aerospace Standard

Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Independent Distribution

Purpose	Standardizes practices to: <ul style="list-style-type: none">a. procure parts from reliable sources,b. assess and mitigate risk of distributing counterfeit parts,c. control suspect or confirmed counterfeit parts,d. report suspect and confirmed counterfeit parts to other potential users and Authority Having Jurisdiction,e. and assess, mitigate, control, and report parts which have been used, refurbished, or reclaimed, but represented as new product.
Target Audience	Independent Distributors/Brokers of Electronic Components
Uses	<ul style="list-style-type: none">• Requirements for a Counterfeit Mitigation program• Intended to be used for certification of Distributors (ANAB)
Status	<ul style="list-style-type: none">• Published – November 2012. Rev. A in development.

SAE AS6081 – Aerospace Standard

Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Independent Distribution

- Quality Management System
 - Counterfeit Mitigation Policy
- Counterfeit Electronics Parts Control Plan
 - Customer Related Contract Review, Agreement, & Execution
 - Purchasing
 - Purchase Order Requirements
 - Supply Chain Traceability
 - Verification of Purchased Product
 - Material Control
 - Reporting
 - Personnel Training and Certification

SAE AS6081 – Aerospace Standard

Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Independent Distribution



- OEMs may specify their independent distributor suppliers comply with AS6081 to support flow-down requirements of AS5553
- AS6081 requirements are intended to be applied/flowed down to Independent Distributor/Broker suppliers
- Independent, third-party certification bodies (CBs) verify of compliance to AS6081
- Accreditation of Certification Bodies (CB) will be through a recognized and respected accreditation body (AB) to ensure the impartiality and competence of each Certification Body

SAE AS6496 – Aerospace Standard

Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Authorized/Franchised Distribution

Purpose	Delineates practices to: <ul style="list-style-type: none">a. procure parts from authorized sources,b. provide authenticity and traceability of procured parts,c. control parts identified as counterfeit,d. report counterfeit parts as appropriate, ande. minimize the risk of counterfeit() parts entering the supply chain
Target Audience	Authorized/Franchised Distributors of Electronic Components
Uses	For use by Authorized Distributors purchasing and selling electronic components, supplies and equipment acquired directly from the manufacturer for which they are authorized or from another Authorized Distributor.
Status	<ul style="list-style-type: none">• In development.

SAE AS6496 – Aerospace Standard

Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Authorized/Franchised Distribution

Requirements:

- Counterfeit Mitigation Policy
- Counterfeit Electronics Parts Control Plan
- Customer Related Processes
- Purchasing
- Traceability, Record Retention and Retrievability
- Customer Returns
- Scrap Control in Authorized Distribution
- Inventory Control Plan
- Reporting

ARP6178 – (Aerospace Recommended Practice)

Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors

Purpose	Tool for the evaluation of a distributor's processes for the prevention, detection, containment, and reporting of counterfeit electronic components
Target Audience	<ul style="list-style-type: none">• Distributors of Electronic Components (self assessment)• Customers of Distributors (for assessment and the calculation of a risk score)
Uses	<ul style="list-style-type: none">• Develop Risk Assessment score for the Counterfeit Mitigation program• NOT intended to be used for certification of Distributors
Status	<ul style="list-style-type: none">• User Guide and Worksheet Published 2011-12-19.

Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors

- Justification for Assessment
- Pre-visit Assessment Survey
- Site Assessment Survey
- Supplier Selection
- Assessment Spreadsheet
 - Survey
 - Tabulates score

Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors

– Survey

- General Company Information
- Pre-Assessment Information
- Industry Membership and Reporting
- Quality System and Processes
- Warranty and Insurance
- Supplier Qualification and Purchasing Process
- Handling and Facilities
- Training and Certification
- Inspection and Test
- Non-Conforming Material Control
- Additional Test and Inspection (In-house or Third-Party)

Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors

- Intended for use by organizations that procure electronic components from suppliers other than the original component manufacturer (OCM)
- Provides organizations with a tool to assess a supplier's capability to prevent, detect, contain and report suspect or confirmed counterfeit electronic components
- Not intended to replace certification compliance criteria

AS6171 – Test Methods Standard

Test Methods Standard; Counterfeit Electronic Parts

Purpose	Standardize practices to detect suspect counterfeit electronic parts and to ensure consistency of test techniques and requirements across the supply chain
Target Audience	<ul style="list-style-type: none">• Independent Testing Facilities• Distributors (in-house testing capability)
Uses	<ul style="list-style-type: none">• Test Methods for counterfeit detection• Proficiency for counterfeit test & evaluation• Intended to be used for accreditation of Independent Test Laboratories or Distributors (ILAC, through ACLASS, A2LA, etc.)
Status	<ul style="list-style-type: none">• In Development. Expected balloting of main doc. in Q4-2013.

AS6171 - Each Test Method section will include:

- Processes and a description of procedures
- Apparatus needed for the test technique
- Required qualification and certification of processes and personnel
- Guidelines and requirements for reporting

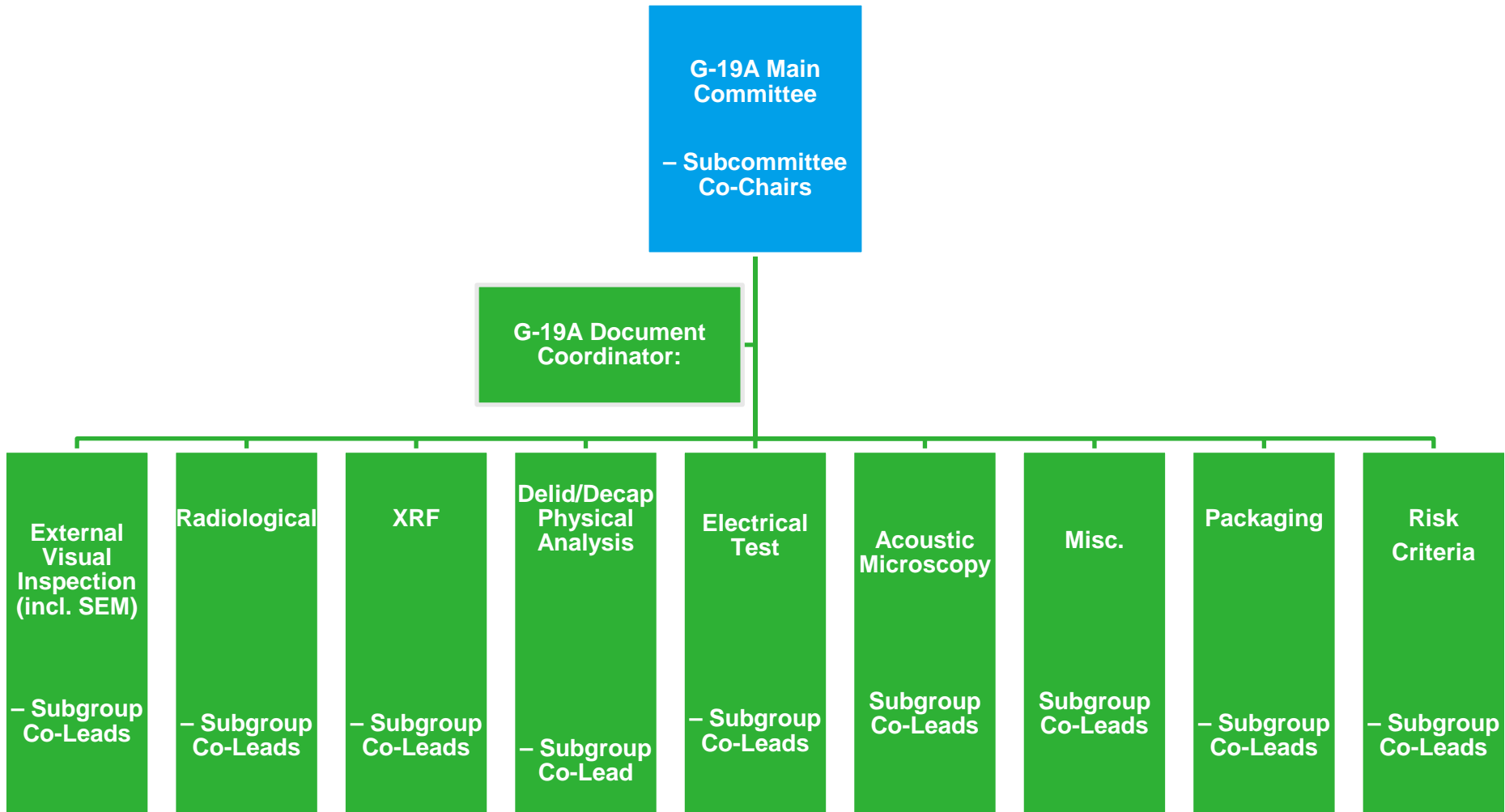
Current Test Methods Covered Under the First Release

- **External Visual Inspection**
 - Including Scanning Electron Microscopy (SEM)
- **Radiological**
- **X-Ray Fluorescence (XRF)**
- **Delid/Decapsulation physical analysis**
- **Electrical Test**
- **Acoustic Microscopy**
- **Fourier Transform Infrared Spectroscopy (FTIR)**
- **RAMAN Spectroscopy**
- **Thermogravimetric Analysis (TGA)**
- **Design Recovery**
- **Selected Environmental**
 - Seal
 - Temp Cycling
 - Thermal Shock
 - Latency Mitigation / Burn-in
- **Risk Criteria and sampling plans**
- **Personnel Certification requirements**

Proposed Tests to Be Covered in a Future Rev.

- Secondary Ion Mass Spectroscopy (SIMS)
- X-Ray Photoelectron Spectroscopy (XPS)
- Auger Electron Spectroscopy (AES)
- Ion Exchange Chromatography (IEC)
- Inductively Coupled Plasma/Optical Emission Spectroscopy (ICP/OES)
- Differential Scanning Calorimetry (DSC)
- Thermomechanical Analysis (TMA)
- Surface Profilometry
- Packaging

G-19A Committee Structure



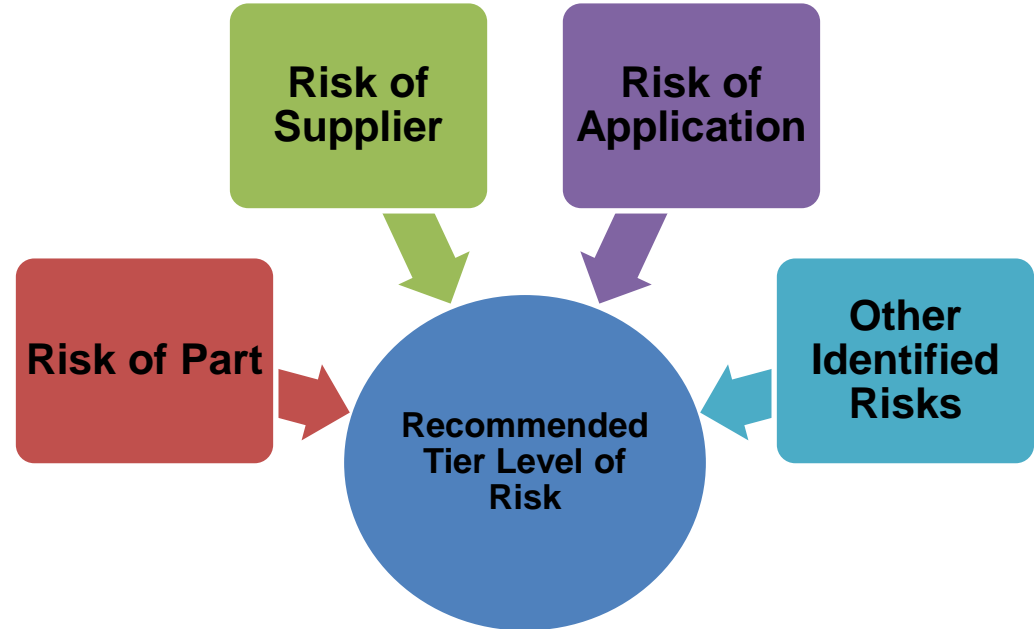
AS6171 – Test Methods Standard

- **Standardize practices to detect suspect counterfeit electronic parts and to ensure consistency of test techniques and requirements across the supply-chain**
- **Level of testing is risk-based and includes sampling plans**
- **Accreditation of the Test Laboratory will be through International Laboratory Accreditation Cooperation(ILAC) (ACLASS, A2LA or other laboratory accreditation bodies) to ensure the impartiality and competence of the Test Laboratory**
- **A third party proficiency scheme is recommended to reduce variability among operators**

AS6171 will include guidance for:

- Evaluating risk and recommended tier level of testing based on:

- Risk of the supplier,
- Risk of the part,
- Risk of application, and
- Other risk factors.



- Recommended sampling plans

AS6174 – Counterfeit Materiel

Counterfeit Materiel Other than Electronic Parts; Assuring Acquisition of Authentic and Conforming Materiel

Purpose and Uses	<p>This SAE Standard standardizes practices to:</p> <ol style="list-style-type: none">maximize availability of authentic materiel (made from the proper materials using the proper processes with required testing,)procure materiel from reliable sourcesassure authenticity and conformance of procured materielcontrol materiel identified as counterfeit, andreport counterfeit materiel to other potential users and government investigative authorities
Target Audience	<ul style="list-style-type: none">Organization that purchase and/or manufacture products other than electrical components
Rationale	<ul style="list-style-type: none">Created in response to a significant and increasing volume of counterfeit material entering the supply chain
Status	<ul style="list-style-type: none">Published May 2012. Rev. A in development.

Committee G-21 - Counterfeit Materiel (AS6174)

- **April 20, 2010 – DoD PSMC (Part Standardization and Management Committee) requested SAE to address counterfeit NON-electronic parts**
- **May 14, 2010 – First telecom of new group**
- **October 4, 2010 – AS6174 based on major rewrite of AS5553 to address all materiel, nearly complete**
- **Jan-May 2011 – revised to consider Office of the Secretary of Defense (OSD) and WH Intellectual Property Enforcement Coordinator(IPEC) input**
- **Published May 2012**

AS6174 - Counterfeit Materiel

- **For all applications**
 - Preference for purchase from original manufacturer or licensed/franchised dist.
 - Extra documentation/testing for other distributors/brokers
- **Tracks closely with draft Office of the Secretary of Defense (OSD) and White House (WH) policy for avoiding counterfeits with all materiel, including medicine, tourniquets, etc.**

- **New Areas of Work:**
 - Source Requirements – need revision
 - Refrigerants
 - Packaging
 - Raw Materials
 - Bearings
 - Fasteners
 - Others?

Summary of SAE G-19/G-21 Aerospace Standards

Standard	Title	Status
SAE AS5553A (G19-CI)	Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition	Issued January 2013 and available at www.sae.org
SAE AS6462 (G19-C)	Verification Criteria for Certification against AS5553	AS5553 verification criteria for first release published – 2011-11. Discussions underway for certification programs/schemes. Rev. A verification criteria under development
SAE AS6171 (G19-A)	Test Methods Standard; Counterfeit Electronic Parts	In draft; Individual test methods balloted. Main document balloting expected in 4Q-2013
SAE AIR6273 (G19-T)	Terms and Definitions:	In draft. Expected balloting in 1Q-2014.

Summary of SAE G-19/G-21 Aerospace Standards

Standard	Title	Status
SAE AS6081A (G19-D)	Counterfeit Electronic Parts Avoidance – Independent Distributors	Published 2012-11. Rev. A in development.
SAE AS6301 (G19-C)	Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Independent Distributors Verification Criteria	In draft.
SAE ARP6178 (G19-DR)	Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors	Published 2011-12.
SAE AS6496 (G19-AD)	Authorized Distributor Counterfeit Mitigation	In draft.
SAE AS6174 (G-21)	Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel	Published May 2012. Rev. A in development.

SAE INTERNATIONAL

QUESTIONS?

Director, Washington Operations

SAE International

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