

**SAE 2013 Counterfeit Parts Avoidance
Symposium - South
Technical Session Schedule**

As of 12/16/2013 07:41 pm

Tuesday, December 10

SAE 2013 Counterfeit Parts Symposium Technical Program

Session Code: CPASTX1

Room Lindbergh I & II

Session Time: ALL DAY

Time	Paper No.	Title
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US Legislation and Rule Making Activity on Counterfeit Parts

This briefing will include an update on US legislation and rule making activity on counterfeit parts. The briefing will describe the implications of this activity on US defense contractors and suppliers of products destined for use by the US DoD; and include a discussion of a "counterfeit electronic part avoidance and detection system" required of contractors.

Henry Livingston, BAE Systems

AS5553A and AS6081 Synergy - Part II, Mitigating the Risk of Open Market Parts

Revision A of AS5553 was released in January 2013 at the request and collaboration of the international community to address fraudulent/counterfeit part risk mitigation on a global scale across multi-sector electronic supply chain industries and to provide uniform requirements, practices and methods to mitigate the risks of receiving and installing fraudulent/counterfeit electronic parts. While AS6081 was released in November 2012 for distributors of open market parts and invoked by the U.S. Defense Logistics Agency Land and Maritime Qualified Testing Suppliers List (QTSL) Program, it may not be clear how these two standards work together to provide a robust fraudulent/counterfeit parts risk mitigation program for OEMs/CMs. Most recognize these initiatives as warranted and positive steps toward decreasing the risk of a counterfeit part entering the DOD supply chain. However, many are left wondering what can be done now to prepare for and support impending changes in government procurement flow down requirements, specifically related to: personnel training, assessing potential sources of supply in order to determine risk, means for identifying "trusted sources", guidance for debarring sources of supply, supply chain traceability, part inspection and test (minimum test requirements) and reporting, material control and corrective actions. This presentation will offer insight, direction and will incite group discussions all of which will aid attendees in their efforts to prepare for and respond to the changes that can be flowed down by government buyers.

Phil Zulueta, Consultants to Management

Current Status of Various Industry Standards for Mitigating Counterfeits

The Counterfeit Detection techniques of today are barely keeping up with what counterfeiters are able to do in terms of finding new ways to counterfeit EEE devices. They have come up with techniques that are hard-to-detect and have even been able to make bigger investments to counterfeit parts at silicon level. Counterfeiters are introducing product at the non-packaged level since most traceability today mainly focuses at packaging and post packaging level.

Sultan Ali Lilani, Integra Technologies LLC

Mitigating Counterfeit in the Authorized Supply Chain with AS6496

Upon its release, the first SAE standard created to mitigate counterfeit electronics, AS5553, proved truly eye-opening to many folks in the electronics industry. The complexity of distribution came to light as well with the publishing of AS6081 which provided better definitions of the different categories of distributors. The conversation has naturally progressed to the next anti-counterfeiting standard, AS6496. The ECIA began drafting a standard which SAE later decided to employ in the creation of a new standard. SAE commissioned the G-19AD committee to compose the AS6496 standard utilizing this previous work presented by the ECIA. This committee, comprised of OEM, OCMs, manufacturers, customers, government representatives, and of course distributors, has since been hard at work fleshing out a standard which will undoubtedly impact all players trying to avert counterfeit electronics. Upon completion, this standard will define the requirements for distributors operating in the authorized supply chain for mitigating counterfeits. In my presentation, I will walk through the current draft, and point out many of the major details that differentiate AS6496 from previous standards.

Charles Amsden, Mouser Electronics Inc.

BREAK

Material Based Part Authentication - Using the Built-in Imprints

There are some inherent problems with counterfeit detection by inspection. It is getting increasingly difficult to obtain golden parts of right vintage for the purpose of comparison. Wrong vintage parts can mislead the whole detection process with possible false positive or false negative signals during the inspection. For help with detection, the toolkit for part inspection needs to include a catalog of possible and impossible materials and processes for different time periods. The key to materials based authentication is built into a part with material characteristics and properties. The presentation will describe the development of a tool that can be applied for all parts, latest and vintage alike without having to rely on a golden part.

Diganta Das, Univ. of Maryland

IN SEARCH OF A WORKABLE COUNTERFEIT RISK MITIGATION STRATEGY: Lessons Learned in Review of the Current State of the Electronics Industry as Regards Counterfeit Mitigation Requirements for Suppliers

The complexity of the electronics supply chain has necessitated the development of multiple, sometimes differing, standards to mitigate the risk of obtaining counterfeit electronics. To manage the counterfeit issue, OEM's are applying diverse strategies to manage the risk through proscriptions to their suppliers. A review of the documents received by an authorized distributor over a 3 1/2 year period both substantiates some, and refutes other, commonly held beliefs as regards the state of counterfeit risk mitigation in the electronics industry.

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The research categorizes the market segments deploying such methods and analyzes documents received for their distinction as regards type of supplier, type of product, invocation of external documents and common restrictions imposed. Given the results, recommendations are made to the industry.

Kevin L. Sink, TTI Inc.

Solutions Use of Plastic Encapsulated Microcircuits PEMs in Military and Space Systems

As new technology solutions are conceived and designed to aid in fighting counterfeit issue faced by users of EEE parts, even more importance must be placed on diminished material supply and obsolescence planning. One way to reduce the cost of individual parts and to increase the likelihood of late age availability is to further increase the use of plastic packages. Plastic packages are lighter, less expensive and more widely available in the industry, than their ceramic counterparts, making them ideal candidates for design into many non-commercial applications.

Sultan Ali Lilani, Integra Technologies LLC

Networking Lunch and Keynote Speaker: Avoidance of Counterfeit Electronic Parts through Robust Procurement Practices

*The awareness of Counterfeit Electronic Parts in the global supply chain has increased significantly over the last few years as a result of loosely concerted efforts by industry, government, standards and reporting organizations, and the media. Counterfeit electronic parts do not get the attention as much as counterfeit apparel and accessories, but counterfeit electronic parts, if placed into aerospace, defense, medical, automotive or other high reliability hardware has the potential to cause security issues and loss of life. In the efforts to address the counterfeit issue, some may lose sight of this potential consequence, but this is the reason why others persist to engage this threat. The methods and practices to mitigate the risk of counterfeit electronic parts continue to evolve as counterfeiting evolves and as we identify gaps in what we do to implement a robust counterfeit avoidance and detection program. There are numerous steps that can be taken to address the avoidance portion of a counterfeit mitigation program, as it is popularly agreed that *{avoidance}* (pre-procurement) practices are better and more cost-effective than *{detection}* (post-procurement) protocols. This presentation will review, from a procurement standpoint, the status of what can be done to mitigate the risk of counterfeit electronic parts in our hardware.*

Phil Zulueta, Consultants to Management

Strengthening the Supply Chain with DNA Marking

From before the October 2008 Business Week cover story to beyond the November 2011 Senate Armed Services Committee Hearings, there has been a tremendous amount of discussion on the counterfeit crisis. Some argue that the authorized channel is the only pool from which to procure pristine parts, others look to detect counterfeits via surface analysis of known good parts. Both are ways to mitigate the counterfeit problem. SigNature DNA Marking is a proactive way to avoid the problem. While providing a way to prevent counterfeits for end users, the authorized channel can also enjoy the benefits of SigNature DNA. The positive impact is immediate and long lasting...for both in-production and legacy components.

Janice Meraglia, Applied Dna Sciences Inc.

How Effective and Evolved has the Independent Distributor Become?

How effective and how evolved the Independent Distributor has become to mitigate suspect, fraudulent, and counterfeit electronic components, specifically the new Hybrid Model. The Hybrid Model is a full service Supply Chain Specialist with a blend of core competencies to proactively support the electronic manufacturing cycle.

Don Baker, Component Trends

Teaming with a Small Disadvantaged Business While Mitigating the Risk of Counterfeit Parts

The Department of Defense has flow down expectations to enhance subcontracting opportunities for Small Disadvantaged Business concerns. Counterfeit electronic parts tend to enter the supply chain through independent distributors and brokers and many of these are Small Disadvantaged Businesses. When selecting Small Disadvantaged Businesses to be suppliers of electronic components, contractors should ensure these suppliers have business practices in place to prevent the supply and proliferation of counterfeit parts.

Kari Fisher, Centrion Systems

Your Top Ten List on How to Protect Yourself Legally

Do you understand what your rights and obligations are under Section 818 of the National Defense Authorization Act of 2012? Have the proposed DFARS caused you even more confusion? During this presentation, we will discuss the top ten ways of protecting yourself. We will review how to avoid liability under the False Claims Act and the False Statements Act and clarify confusion caused by Section 818 and the proposed DFARS. Suggested terms and conditions for your purchase orders and invoices will also be offered. Finally, we will examine the various burdens of proof that are required to be established in a civil case as opposed to a criminal matter.

Keith Gregory, Snell & Wilmer

BREAK

Expert Panel Discussion: SAE Standards and Guidance: A How-To

Panelists - Don Baker, Component Trends; Diganta Das, Univ. of Maryland; Keith Gregory, Snell & Wilmer; Henry Livingston, BAE Systems; Kevin L. Sink, TTI Inc.; Phillip J. Zulueta, NASA;

Tuesday, December 10

Expert Panel Discussion: SAE Standards and Guidance: A How-To

Session Code: CPASTX2

Room Lindbergh I & II

Session Time: 4:00 p.m.

Moderators - Phillip J. Zulueta, NASA

Panelists - Don Baker, Component Trends; Diganta Das, Univ. of Maryland; Keith Gregory, Snell & Wilmer; Henry Livingston, BAE Systems; Kevin L. Sink, TTI Inc.;