



# Electronics Task Group Newsletter



August 2010

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## From the Chair...

While aerospace and electronics technologies become more and more complex with high sensitive manufacturing processes, they play a significant part in the products and systems reliability and quality. Most of the relevant aerospace companies joined their collaborative effort in the Nadcap Electronics Task Group (ETG) to improve the products and systems reliability and quality in minimizing the cost regarding electronics manufacturing processes.

The current scope addresses Printed Board (PB), Circuit Card Assembly (CCA) and Cables & Harness (C&H). ETG's goal and challenge is to identify a unique and unified set of process requirements and integrate them in the Nadcap checklists and documents to perform audits focused on process.

With the published AC7119 Core Rev-D (PB), AC7119/1 (Rigid PB), AC7119/2 (Flexible & Rigid-Flexible PB), AC7119/3 High Density Interconnection (HDI- PB), AC7120 Rev-A (CCA) and AC7121 (C&H) checklists, the ETG has completed the first major step to conduct accreditation audits for manufacturers in those areas.

For PB, the ETG developed a structure of documents with a Core PB checklist and specific Slash Sheets for Rigid, Flexible & Rigid-Flexible and HDI PB technologies. Other PB technologies such as High Speed Frequency and Embedded Passive Components or specific requirements regarding Lead Free for CCA will be a future consideration.

In summary, ETG is continuing the effort leading to a unified and global vision for auditing Electronics Manufacturing Process Suppliers (Nadcap accreditation) and the ambition is to strongly improve, all along the supply chain, the control of the "Electronics Supplier / Electronics Manufacturing Process".

Subscribing Users have already mandated or are in the process to mandate their Suppliers to be Nadcap accredited or to flow-down this requirement to their sub-contractors:

- For Rigid, Flexible, Flexible & Rigid-Flexible, and HDI Printed Board,
- For Circuit Card Assembly,
- For Cable & Harness.

In 2010, 61 audits are scheduled in the Americas, Europe and Asia.

The ETG progress is significant. This was indeed no small feat, but the ETG is very willing and certainly able to take advantage of audit feedback for checklist improvement and to address the additional areas mentioned above.

The ETG Leadership appreciates the active participation of Suppliers and the OEMs (Original Equipment Manufacturers) that contribute to the ETG's progress along with the support of the PRI Staff Engineer.

The ETG is organizing Supplier Symposiums to support the Nadcap Electronics Program to discuss how to prepare a Nadcap audit. Suppliers involved in PB, CCA and C&H activities within the Nadcap Audit Program are welcome to attend these Symposiums that are planned during the future ETG meetings. The first Symposium will be held in Pittsburgh, PA, USA, in October 2010.

**Philippe Pons** – ETG Chair and Airbus Representative

**Dewey Whittaker** – ETG Vice Chair and Honeywell Aerospace Representative





## Nadcap Meeting Schedule

When?	Where?
October 18-22 2010	Pittsburgh, Pennsylvania, USA
February 28 – March 4 2011	Barcelona, Spain
June 20-24 2011	London, England
October 17-21 2011	Pittsburgh, Pennsylvania, USA

## Supplier Symposium

The Supplier Symposium has been a topic of much discussion over the last 12 months at the Task Group meetings. In Singapore, it was confirmed that such a symposium would take place at the Pittsburgh meeting in October 2010.

The Symposium is designed for new suppliers who are in the process of obtaining Nadcap Electronics Accreditation and also for suppliers recently accredited that want a better understanding of the program. Topics of discussions will include:

- The Nadcap Program as it pertains to Electronics.
- Nonconformances / clarifications relating to the checklists (AC7119 series, AC7120 & AC7121).
- A suppliers perspective of the Nadcap Electronics Accreditation.
- Preparing for a Nadcap audit.
- How to respond to Nonconformances.
- Questions and Answer session

The Electronics Task Group (ETG) invites you to attend this symposium in October as your customers (ETG Subscribers) will be participating and be available to take your questions.

The intent is to hold at least one symposium in each of the three Sectors (Americas, Europe and Asia).

Please register as soon as possible. Space is limited.

*James E. Bennett – PRI Staff*

## Honeywell Aerospace - Product Stewardship Council

The European Union (EU) mandates for compliance to their laws on materials having a potential environmental impact, especially WEEE (Waste in Electrical and Electronic Equipment) and RoHS (Restriction of Hazardous Substances), has necessitated the creation of a dedicated group to drive, develop and deploy guidelines and procedures that are in alignment with these regulations.

Product Stewardship collaborates with other functions to ensure that product environmental regulations are met throughout a product's life cycle. Through procedure development, Product Stewardship is able to focus on the objectives of environmental compliance for Aerospace products, incorporating work processes within the various functions. Product Stewardship has utilized the support of the Quality Assurance organization and the One Aerospace Working Group (OAWG) to deploy cross-functional Aerospace Command Media.

Product Stewardship currently published procedures supporting their initiatives:

- Aerospace Lead (Pb) Free Implementation
- Pb-Free Parts, PBs, and CCA's
- Aerospace Pb-free Control Plan
- CE Marking Awareness

*Dewey Whittaker – ETG Vice Chair and Honeywell Aerospace Representative*

## Honeywell Aerospace - Counterfeit Electronic Parts Procedure

The purpose of this Procedure is to establish Aerospace processes regarding the prevention of counterfeit or suspect electronic parts, used in production, from entering a Honeywell Aerospace facility. This procedure supports the latest release of the standard AS-5553, "Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition", by developing and implementing a counterfeit electronic parts control plan that documents its processes used for risk assessment, disposition, and reporting of counterfeit parts. This procedure also provides the risk assessment actions necessary to prevent entry of counterfeit or suspect electronic parts into the Honeywell Aerospace supply chain. Purchasing activities through receiving and inspection processes are further defined and detailed in supporting procedures which create a closed loop process.

This Aerospace Procedure standardizes practices to:

- a. Develop risk assessment plans for suspect or counterfeit electronic parts.
- b. Maximize availability of authentic parts by procuring parts from reliable sources.
- c. Develop and provide adequate testing to determine suspect part status based on criticality of device, application, and supplier.
- d. Establish receiving and inspection requirements of suspect parts to prevent counterfeit parts from entering the supply chain.

*Dewey Whittaker – ETG Vice Chair and Honeywell Aerospace Representative*

## What has happened recently with the ETG?

The ETG met in Singapore in June and preparation is well under way for the Task Group meeting being held in October. Some of the key topics that were discussed at the meeting in Singapore include:

### Nadcap Summary Report- ETG (June 2010)

#### Major Discussion Points-

- Auditor training
- Modifications to all Checklists
- Involvement in the ETG with Subscribing Users
  - NMC and PRI Management to encourage other Subscribing Users to be involved
- Supplier Symposium (Pitt / Barc / Lon)

#### Cross- Task Group Initiatives-

- ETG want to look at merit in terms of NCR count affecting 18 months accreditation cycle

#### Standardization/Best Practices-

- PRI Staff witnessed Elec audit and provided recommendations for changes to the checklist
  - In briefing and out briefing presentations in process of being created for consistency
- NCR classification consistency

#### Concerns/Comments-

- Subscribing Users –
  - In ETG – Certain individuals do not participate as much as others
  - Need more representation from other Subscribing Users

The October meeting will be especially busy because the Nadcap / PRI Annual Auditor Conference and Supplier Symposium will be taking place before the actual Task Group meeting.

For details relating to the Nadcap Task Group Meetings, including minutes and the upcoming Supplier Symposium, please visit the Nadcap website at [www.pri-network.org/Nadcap](http://www.pri-network.org/Nadcap).

## PRI Staff Contact Details

Name	Position	Location	e-mail Contact	Telephone
Jim Bennett	Senior Staff Engineer	Warrendale, PA, USA	jbennett@sae.org	+1 (724) 772-1616 ext 8651
Rhonda Joseph	Committee Service Representative	Warrendale, PA, USA	rjoseph@sae.org	+1 (724) 772-1616 ext 8644
Kellie O'Connor	Committee Service Representative	Warrendale, PA, USA	koconnor@sae.org	+1 (724) 772-1616 ext 8676