



Electronics Task Group Newsletter



July 2008

Issue Highlights

From the Chair and Vice Chair.....	1
Nadcap Meeting Schedule	2
From eAuditNet Support.....	2
Document Location	2
Upcoming eQuaLearn Event.....	2
Registering on eAuditNet.....	3-5
Prime Representatives of the Electronics Task Group.....	7
Supplier Representatives of the Electronics Task Group.....	8
Other Representatives of the Electronics Task Group.....	8
ETG Checklist Development	8
Interested in becoming a part of the Electronics Task Group?	9
Miscellaneous.....	9
Supplier Support Committee (SSC).....	10
Get to know your Staff Engineer	10
Customer Solutions and Support...	11
Electronics Newsletter	11
Staff Contact Details.....	11

PRI Electronics

Ed Nellans
Task Group Chairperson
Email: benellan@rockwellcollins.com

Philippe Pons
Task Group Vice-Chairperson
Email: philippe.pons@airbus.com

Stan Revers
Staff Engineer – Nadcap Program
Email: srevers@sae.org



From the Chair and Vice Chair

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

The current scope addresses Printed Board (PB), Board Assembly and Cables & Harness. Our goal and challenge is to identify a unique and unified set of process requirements and to integrate them in Nadcap checklists and documents to perform audits focused on process. North American and European expectations and requirements have been taken into account from the beginning in those checklists.

With the published AC7119 Rigid PB and AC7120 Board Assembly checklists (respectively in version C and A), the Electronics Task Group has completed the first major step to carry on accreditation audits for manufacturers in those areas.

There is still, of course, work to do for completing the checklists and audit documents regarding the entire area of PB products and particularly for improving the checklists with the feedback from future PB & Board Assemblies audits.

In this way, the Electronics Task Group has developed for PB area a new structure of documents with a core PB checklist and specific supplements for Rigid, Flexible & Rigid - Flexible and HDI (High Density Interconnection) PB technologies.

Regarding Cable & Wire Harness Assemblies (which covers cables, connectors & contacts wiring), the first version of the checklist has been developed.

All those documents are submitted to Task Group reviews to prepare their ballots allowing to bring them into application in the second half of 2008.

Other technologies such as PB addressing High Speed Frequency and Embedded Passive Components or specific requirements regarding Lead Free Board Assembly will be then considered.

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

Primes 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:

- PB (Rigid process currently, and Flexible, Rigid-Flexible and HDI in short term),
- Board Assembly.

Congratulations to the Electronics Task Group for its perseverance needed to gain consensus on those requirements and checklists. ETG progress is significant; this was, indeed, no small feat but the Task Group is very willing and certainly able to take advantage of audits' feedback for checklists' improvement and to address the additional areas mentioned above.

We appreciate the active participation of the PB and Board Assembly Suppliers, the OEMs (Original Equipment Manufacturers) ones, which have highly contributed to ETG progress with the support of our PRI Staff Engineer.

Ed Nellans – Rockwell Collins, Chairperson, Electronics Task Group

Philippe Pons – Airbus, Vice Chairperson, Electronics Task Group



Ed Nellans



Philippe Pons

Nadcap Meeting Schedule

When?	Where?
21 – 25 July 08	Pittsburgh, PA
29 Sept – 2 Oct 08	London, England *
6 – 10 Oct 08	Yokohama, Japan **

* - ETG only

** - AQS, CP, CT, COMP, HT, MTL, NMSE, NDT, WLD, NMC, and SSC only

If you would like to register online for the meeting or to find minutes from previous meetings go to [www.pri-network.org/PRI/Nadcap-Meeting-Information-\(Logistics-Minutes-Agendas\)](http://www.pri-network.org/PRI/Nadcap-Meeting-Information-(Logistics-Minutes-Agendas)).

Get Involved

The Electronics Task Group representation is continually growing and evolving as the ETG gains increasing recognition. Please contact Stan Revers at srevers@sae.org to find out how both Primes and Suppliers can become contributing members of the ETG.

From eAuditNet Support

Are you a company administrator, but aren't sure what all your applications can do? Below are the instructions on how to edit / remove one of your company's users' accounts.

1. Log into www.eAuditNet.com, click on Edit User under Applications.
2. Use the User Search tool to find the user's account you wish to edit.
3. Select the user's name whose account you wish to edit.
 - a. Use the buttons below the list of users to edit names or contact information, adjust system privileges, or to remove the account entirely.

The eAuditNet Team suggests checking this frequently so that your company contacts list is always up to date. You can find all of this information in the Company Administrator Guide in eAuditNet, www.eAuditNet.com, under Public Documents. If you have any questions please contact either Randi Bolender, rbolender@sae.org, Louise Stefanakis, louises@sae.org, or the eAuditNet Support Help Desk, eAuditNetSupport@sae.org.

Upcoming eQuaLearn Event

On October 29 - 30, 2008, eQuaLearn will exhibit at Aero Engine Expo 2008 in Paris, France. The exhibition will be free to visit for anyone who pre-registers before the deadline. In addition to being able to walk the exhibition floor, all visitors may attend the Open Seminar programme.

This is the first time that the exhibition has been held in Paris - in previous years, the event has taken place in London, UK.

Learn more and register to attend at www.aeroengineexpo.com

Document Location

Need a document, but not sure where to look? More information about the Electronics Task Group can be found at www.eAuditNet.com.

Checklists:

Under **Applications** in the left hand column, select **Checklist** and then select **Electronics** from the drop down.

Preliminary Questionnaire / Preparation / RAIL / Handbook:

Under **Resources** in the left hand column, select **Public Documents** and then scroll down to the **Electronics** section. Click on the link to access the document you are interested in.

Registering on eAuditNet...

To obtain access to eAuditNet it is necessary to register in the system, to do this you first log onto eAuditNet via www.eAuditNet.com.

1. Click on the link 'New to eAuditNet':



2. If you are already an SAE member, enter your SAE User ID and Password in the first box:

If you are a SAE member, please enter your SAE UserID and Password

User ID:

Password: (case-sensitive)

[Forgot your Password?](#)

3. If you are not an SAE member skip the first box and enter your information in the second box:

Otherwise, please continue with Registration process * denotes required fields

Prefix: Mr. Ms./Mrs.

First Name (Given Name):

Middle Name:

Last Name (Family Name):

Suffix:

Birth Date: (mm/dd/yyyy)

Nickname:

Company Name:

Job Title:

Preferred Mailing Address: Home Business

Department/Division:

Street Address:

Mail Stop:

Suite/Apt:

City:

Country: United States

State/Province:

County (California/ Florida only): -NA-

Postal Code:

Preferred Email:

Telephone: - ext (Do not include country code, it is automatically inserted)

Fax: - ext (Do not include country code, it is automatically inserted)

Select a User ID:

Select a Password:

Re-type Password:

Choose a Hint Question: Birth Date

Enter your Answer:

You need to ensure that every area with a * is completed for registration.

Where it asks for your company name you will need to enter the first 3-4 letters of your company and click the find button. This will ensure that you are linked correctly with your company in order to gain access to the applications. After you have found your company (see below) you will need to finish filling out the form and click the register button.

4. When you 'Find' your company the following screen will appear:



5. If you do not see your company listed  please contact a member of scheduling:

For audits in the North/South America: +1 724 772 1616

-John Stecklow, ext. 8670 - johns@sae.org

-Linda Novak, ext. 8669 - lindab@sae.org

-Jamie Heusey, ext. 8582 - jheusey@sae.org

For audits in Europe, Africa & Middle East: +44 870-350-5011

-Hannah Bryan – hannah.bryan@pri-europe.org.uk

For audits in Japan & South Korea: +81 568 35 3520

-Yuko Nakamura – ynakamur@sae.org

For audits in Asia, except Japan & South Korea: +86 106 461 9807

-Riki Tang or Liu Le – tjingyu@sae.org or lle@sae.org

6. Once you have registered successfully you will see the following screen until you have been accepted as a user with your company:

The screenshot shows the eAuditNet website with a user logged in as 'john brown'. The navigation bar includes links for 'LOG-OUT?', 'HOME', 'ABOUT US', 'CONTACT US', and 'FAQ'. Below the navigation bar are three buttons: 'Change Password', 'Edit Profile', and 'Edit Addresses'. A red arrow points from the text below to each of these buttons. The main content area displays a welcome message and a disclaimer. A sidebar on the left lists resources like 'Online QML', 'Online QPL', 'ISO/IEC 17025 QML', 'Online Registrar', and 'Public Documents'. A large text box on the left states: 'You will have limited access to the Resources in eAuditNet until you have been accepted as a user with your company.'

You can click on Change Password to change your User ID or Password. You can use Edit Profile to update your name or other personal information. **If you are using Edit Profile be careful not to change your Business Name as this will result in you losing your connection with your company**** You can also use Edit Addresses to change your Address, E-Mail, Phone, or add additional information.**

7. The following Resources will be available:

The screenshot shows the 'Resources' section of the eAuditNet website. A list of resources is shown on the left, with red arrows pointing to their descriptions on the right:

- Online QML** → Searchable Qualified Manufacture's List displays listing of Nadcap certified suppliers
- Online QPL** → Searchable Qualified Product's List displays listing of approved products
- ISO/IEC 17025 QML** → Searchable list of Suppliers that have Nacila certification
- Online Registrar** → Searchable Registrar Listing displays listing of Qualified Standards certified suppliers
- Public Documents** → Download users guides and commodity specific documents suppliers may need for their Nadcap audits

8. In the Public Documents section you can download and print documentation to help you better understand eAuditNet and also documentation on preparing for your audit:

The left screenshot shows the 'Public Documents' section of the eAuditNet website. A list of documents is shown on the left, with red arrows pointing to their descriptions on the right:

- General Documents**
 - Notification of Change Request for Revised Certification - 10/11/11/Revised 15-JUN-2007
 - Supplier Self-Assessment Readiness List 6-Jul-07
 - Supplier Assessment - Revised 22-DEC-06
 - Supplier Guidance - Revised 7-Mar-07
 - Nadcap Quality System Requirements 1-Mar-07
 - How To Pay For Nadcap Audits 06-Jan-07
 - 2006 Audit Process Table - 01-Jan-06
 - 2007 Audit Process Table - 01-Jan-07
 - Scheduling Of Available Facilities - 11-Nov-06
 - Nadcap Audit Brochure - June 06
 - Nadcap General Audit Handbook (24-Jul-07)
 - U-F in Nadcap Audits & PMS Draft 9-JUL-07
- eAuditNet User Guides**
 - Supplier Pre-Audit Power Point Tutorial 21-NOV-04
 - Supplier Post-Audit Power Point Tutorial 04-NOV-05
 - eAuditNet Auditor's Guide Revised 01-DEC-06
 - eAuditNet Company Administrator's Guide 10-JUN-06
 - eAuditNet Prime Users Guide 20-Jun-07
 - eAuditNet Office Audit Completion Guide 17-MAR-05
 - eAuditNet QML Drivers Guide 26-JUN-06
 - eAuditNet QPL Products Guide 22-MAY-06
 - eAuditNet Registrar Guide 18-Apr-07
 - Auditor Interactive Help - Auditor Expense Report Completion
 - Auditor Interactive Help - Auditor Calendar
 - Auditor Interactive Help - Audit Checklist Completion

There are General Documents, such as the t-form-11, Supplier Guidance, and U-fax Numbers.

There are also eAuditNet User Guides to help you understand all the functions available to you.

The right screenshot shows the 'Public Documents' section of the eAuditNet website. A list of documents is shown on the left, with red arrows pointing to their descriptions on the right:

- Composites**
 - Preliminary Questionnaire for Composites revised 18-OCT-06
 - Composites Price Index/Chart - 20-FEB-07
 - Audit Map/Book - Audit 18-Nov-03 22-Mar-07
 - Materials Presentation - Nylon 1000 2006
 - Materials Presentation - Nylon 1010 2006
 - Materials Presentation - GE Avionics 807 2006
 - Materials Presentation - Goodrich Aerostructures Ref 2006
 - Materials Presentation - Honeywell Ref 2006
 - Materials Presentation - BAC-7400-RTAC 27-Sep-06
 - Materials Presentation - Bata Bourgois 1-NOV-07
 - Composites Suppliers Perspective April 2006 15-FEB-07
 - SCIR - ACFT118 Rev 4 22-Mar-07
 - Top 10 NCRs 22-Mar-07
 - COOP Rev. 16-Jan-07
 - IMRT Rev. 16-Jan-07
- Design**
 - Preliminary Questionnaire for Design - 15-MAY-2006
- Distributors**
 - Preliminary Questionnaire for Distributors 11-MAY-06
- Customer Seats**
 - Preliminary Questionnaire for Electronic Seats 11-MAY-06
 - QR Changes of Location Procedure Jun 2007
 - SEAL 5.004 - 16-Jan-07

You can go through the Public Documents section and find your commodity. Each list their Preliminary Questionnaire, if they have any, and any other useful information to have during the Nadcap audit process.

Upcoming Nadcap Training

In April 2008, PRI launched www.eQuaLearn.com. This new learning tool has been developed by leaders in the quality and aerospace industries. With eQuaLearn you can register and confirm your seat in all courses in one easy step, review your learning transcript, read about industry trends and more!

eQuaLearn currently offers 3 courses, and will be adding Problem Solving, Contract Review and Introduction to Quality in the next few months. Development for 20 new courses by 2010 is underway. Additionally, new e-learning modules and articles are added monthly!

Listed below are eQuaLearn's upcoming course dates – go to www.eQuaLearn.com for more dates and to register.

Internal Auditing

A two-day training program that will teach you how to develop and implement an effective internal audit program including developing an audit plan and audit schedule. By participating in engaging activities, you will learn important audit techniques such as interviewing, writing findings, reviewing objective evidence, closing out the audit, and more. After completing the course you will understand how to develop a strong internal audit program and be able to immediately implement these new skills to continually improve your operations.

Cost: \$600.00, includes continental breakfast and lunch both days, Internal audit workbook, worksheets, template, a CD with electronic copies of all materials AND a certificate of completion.

"The instructors, seminar material, and the experience and knowledge I gained in the Internal Auditing course were excellent." **-Dieter Frentzen,**
Goodrich Control Systems, GmbH

Upcoming dates:

11-12 August 2008 Seattle, Washington, USA
15-16 September 2008 Charleston, South Carolina, USA

Root Cause & Corrective Action

This one-day program will teach you how to analyze problems and determine long-term solutions. After attending the course, you will be able to; identify problems, collect effective and relevant data, understand and apply the concepts of direct, contributing and root cause, design mistake proofing techniques, and implement effective preventative actions that will lead to continual improvement.

Cost: \$250.00, includes continental breakfast and lunch, Root Cause workbook, worksheets, a CD with electronic copies of all materials AND a certificate of completion.

"My only regret is that I wish I would have attended this (Root Cause) class sooner!" **-Jan Schiltz,**
AADFW, Inc.

Upcoming dates:

13 August 2008 Seattle, Washington, USA
17 September 2008 Charleston, South Carolina, USA

Introduction to Pyrometry (AMS2750D)

PRI's Pyrometry course is a two-day review and comprehensive discussion of the SAE AMS 2750D specification and how to apply the requirements at your company. Participants will achieve a thorough understanding of pyrometric controls applicable to heat treating; receive clarification on the intent and interpretation of SAE AMS 2750D and much more.

Cost: \$600.00, includes continental breakfast and lunch both days, AMS2750D, Pyrometry Handbook, Pyrometry workbook, worksheets, a CD with electronic copies of all materials AND a certificate of completion.

"I would recommend this training to anyone who uses AMS2750D in their operations." **-David Smith,**
Rolls Royce plc

Upcoming dates:

14-15 August 2008 Seattle, Washington, USA
18-19 September 2008 Charleston, South Carolina, USA

Nadcap Customer Support Initiative (NCSI)

New to the Nadcap program and want to learn more about it? Join one of PRI's free Nadcap Customer Support Initiative (NCSI) classes. With the support of Nadcap User members, PRI schedules these trainings several times each quarter. Only a computer with internet access and a telephone is needed to participate. The training is conducted via web-based software and teleconference. A session lasts around two hours to ensure an informative and interactive training. This program has been developed for supplier companies and contacts new to the Nadcap process, but all Nadcap suppliers are welcome to participate in this free training. There is even a session for reaccreditation suppliers! The session for a Reaccreditation Suppliers is a NCSI program developed for suppliers who have had Nadcap audits and would like to learn more about preparation, Nadcap requirements and NCR tips to help achieve supplier merit. On average, suppliers who participate in this training have less NCR's and resolve their findings quicker than suppliers who do not participate in an NCSI session. For more information please email ncsi@sae.org.

Prime Representatives of the Electronics Task Group

Prime	Representative	Status
Airbus Blagnac Cedex, France	Philippe Pons	Vice Chair / User Voting Member
Airbus Blagnac Cedex, France	Christian Masson	Alternate / User Voting Member
Airbus Blagnac Cedex, France	Laetitia Tonnelier	Alternate / User Voting Member
Ball Aerospace Westminster, CO	Suzanne Stekette	User Voting Member
Goodrich Aerostructures Group Chula Vista, CA	Mark Whalley	Secretary / User Voting Member
Goodrich Aerostructures Group Birmingham, UK	Nicholas Brenton	Alternate / User Voting Member
Goodrich Aerostructures Group Chula Vista, CA	Craig Scott	Alternate / User Voting Member
Hamilton Sundstrand Windsor Locks, CT	Steven Webster	User Voting Member
Honeywell Aerospace Phoenix, AZ	Mark Bohley	User Member
Honeywell Aerospace Phoenix, AZ	Richard Rowe	User Voting Member
Honeywell Aerospace Phoenix, AZ	Richard Rumas	User Member
Honeywell Aerospace Phoenix, AZ	Dewey Whittaker	User Voting Member
Lockheed Martin Corporation Bethesda, MD	Steven Nolan	User Voting Member
NASA Greenbelt, MD	Jeannette Plante	User Voting Member
Rockwell Collins Inc Cedar Rapids, IA	Byron (Ed) Nellans	Chair / User Voting Member
Rolls-Royce PLC Derby, UK	Neville Holmes	User Voting Member
SAFRAN Group Paris, France	Nathalie Lefevre	User Voting Member
Textron Defense Systems Byfield, MA	Kevin Connolly	User Voting Member
Thales Orsay, France	Eric Lacourt	User Voting Member
Thales Orsay, France	Philippe Larivee	Alternate / User Voting Member

Supplier Representatives of the Electronics Task Group

Supplier	Representative	Status
ACTIA s.q. Colomiers, France	Pascal Deneau	Supplier Voting Member
ACTIA s.q. Colomiers, France	Cecile Cabo	Alternate / Supplier Voting Member
Flexible Circuits Inc	Russ Griffith	Supplier Member
Meggitt Plc United Kingdom	Andrew Jones	Supplier Member
MPC Products Corp Skoki, IL	Paul Paczocha	Supplier Member
RPC Manufacturing Solutions LLC	Brian Rohs	Supplier Member
Somacis Manfredonia, Italy	Giacomo Angeloni	Supplier Member
Somacis Manfredonia, Italy	Cristiano Bazzi	Supplier Member
Somacis Manfredonia, Italy	Mina Rella	Supplier Member
TTM Santa Clara, CA	Ron Meier	Supplier Member
Vibro-Meter Fribourg, Switzerland	Thomas Blum	Supplier Voting Member
Volex Ionix Derby, UK	Dave Waltho	Supplier Member

Other Representatives of the Electronics Task Group

Company	Representative	Status
Performance Review Institute	Randi Bolender	Staff Representative
Performance Review Institute	Stan Revers	Staff Engineer / Staff Representative
Performance Review Institute	Douglas Sutherland	Auditor

ETG Checklist Development

Checklist	AC7119/1 Rigid	AC7119/2 Flex & Rigid Flex	AC7119/3 HDI	AC7121 Cable & Harness
Estimated Publication	Q3 2008	Q3 2008	Q3 2008	Q4 2008

Interested in becoming a part of the Electronics Task Group?

Are you interested in becoming a part of the Electronics Task Group, but aren't sure how? According to NTGOP 001 User Voting Members will vote to approve User/User Alternate or Supplier/Supplier Alternate Voting Members. This may take place during the second regular Nadcap Task Group meeting attended. Voting privileges shall be waived if a voting member is absent without alternate representation from three consecutive regular Nadcap Task Group meetings. And voting members, or approved alternate representation, shall not miss a vote on two consecutive letter ballots. So what does this mean for you as a User or Supplier? If you are interested in becoming a Voting Member for the Electronics Task Group you will need to attend a regular Nadcap Task Group meeting. To register go to [www.pri-network.org/PRI/Nadcap-Meeting-Information-\(Logistics-Minutes-Agendas\)](http://www.pri-network.org/PRI/Nadcap-Meeting-Information-(Logistics-Minutes-Agendas)). You will then need to fill out the m-frm-01 which will be sent to the Task Group Chair for approval. If you have any questions about this process please contact Randi Bolender or Stan Revers. (Contact details are listed at the end of the newsletter).

Editorial Note for Suppliers

The ETG newsletter is not just a means of communicating news to the ETG or individual primes. It is an excellent tool for the suppliers to communicate issues and share best practices and experiences with the others. These newsletters reach a wide variety of people worldwide, so take this opportunity to communicate. If you have any articles you wish to have included in the ETG newsletter, please forward them to Randi Bolender. (Contact details are listed at the end of the newsletter).

Miscellaneous

Electronics Task Group...

Upcoming Electronics Task Group agendas and previous meeting minutes are posted on the PRI website, <http://www.pri-network.org>

Auditors Needed...

Nadcap is the leading worldwide cooperative program of major companies designed to manage a cost-effective consensus approach to special processes & products and provide continual improvement within the aerospace & automotive industries. Unlike other accrediting organizations, Nadcap provides process audits for specific technical capabilities or, as Nadcap refers to them, "Special Processes" and "Special Products".

The Process

In the Nadcap process, subscribers mandate the audit requirements of their suppliers in order to improve technical oversight of special process suppliers and ensure consistency through industry standards. By this method, accreditation is the same for every supplier and is recognized by all participating subscribers. Auditors are contracted by the Performance Review Institute (PRI), a not-for profit organization which administers the Nadcap program. Prime voting members of the Task Group review the audit results and determine Supplier accreditation by ballot.

Nadcap is reaching around the world with over 25 Primes participating. PRI is projecting approximately 4,000 special process / product audits to be conducted in 2008 in the Americas, Europe and Asia combined.

Electronics Task Group

The Electronics Task Group has established an initial scope that cover Printed Boards (PB), PB Assemblies, and Cable & Harness. The checklists are being developed in conjunction with IPC standards.

Electronics Task Group Auditors

Nadcap is looking for qualified contract auditors to conduct consensus audits in the aerospace industry for electronics. The Task Group has a strong interest in contracting auditors with hands-on manufacturing experience and strong experience in IPC standards.

Perks and Benefits of being a PRI auditor:

- Set your own schedule
- You will not need to relocate
- Competitive daily rate
- Performance bonus
- Compensation for travel and living expenses

All applicants must apply via this website, www.eAuditStaff.com. For more information, please contact Jennifer Eckels. (jennifereckels@sae.org or +1 724.772.8579)

Supplier Support Committee (SSC)

SSC comprises of Suppliers who are involved in the Nadcap program to address overall issues common to suppliers, not technical or specific issues associated with the Task Groups. This Committee operates independent of the Task Groups. The Leadership team comprises of an SSC Chair (who also is a voting member on the NMC), two representatives from each of the sectors (Americas, Asia, and Europe) and a secretary.

Within the SSC, there are committees to address various aspects of Nadcap; current activities include Communications & Mentoring, Metrics and the Supplier Survey.

The SSC also includes supplier representatives who act as supplier Task Group representatives for each of the commodities / products so information can be flowed accordingly between the Task Groups and SSC as applicable.

SSC's Goal

Our goal is to represent the supplier community and work with the Nadcap Management Council to enhance the effectiveness and economical value of the Nadcap system for the mutual benefit of suppliers and primes.

Supplier involvement is a key part to the success of the Nadcap Program. Become involved in the process at the commodity task group level and within the SSC arena. For more information on how to be involved, contact PRI Staff. (Contact details are listed at the end of the newsletter).

Get to know your Staff Engineer...



Stan Revers

Stan has been serving as the Staff Engineer for the Electronics Task Group since January of this year while continuing his work as Business Development Engineer at PRI. Stan joined PRI in early July of 2007. Stan has a degree in Chemical Engineering from Carnegie Mellon University. A Pittsburgh-area native, he currently resides in the North Hills.



Customer Solutions and Support

Did you spot the cube logo on the front page? Wondered what it means? - PRI has created Customer Solutions and Support initiatives, which exist to provide quality customer-driven and cost-effective business solutions to continually improve organizations throughout the world. As a result of these initiatives, a new logo has been introduced which represents the many different ways that PRI can support businesses by identifying customized solutions to their unique needs. PRI is already working with industry representatives to determine current and future requirements.

Electronics Newsletter

The Nadcap Electronics Newsletter's purpose is to communicate information through out the Nadcap program to improve our process and promote the sharing of best practices. If you would like to request an article of interest or would like to provide an article please forward these to the ETG Staff for future inclusions.

Thank you,

Randi Bolender and Stan Revers

Staff Contact Details – Electronics Task Group

Name	Position	Location	e-mail Contact	Telephone	U-Fax
Randi Bolender	Secretary	Warrendale, PA, USA	rbolender@sae.org	+1 724.772.8687	+1 614.635.2845
Stan Revers	Business Development Engineer	Warrendale, PA, USA	srevers@sae.org	+1 724.772.7157	+1 614.635.2845

