

June 2023 Nadcap Meeting Attendees' Guide Berlin, Germany

Estrel Hotel Sonnenallee 225 Berlin 12075 GERMANY

Global Aerospace Primes End Users Committed Primes Task Groups and Global Network -Using a Cost-effective and Efficient Industry Managed Accreditation Process Management Operating System α Develop a World-class Supply-base for the Global Aerospace Industry **NMC Work Domain** Nadcap Vision and Core Strategies Staffing, Efficient **Auditors and PRI** Accreditation **High Skilled** Cost Effective and Efficient Accreditation Process Industry Managed Nadcap Vision Equitable Prime **Participation** Management Industry 2 and Top Level Indicators Containment Cost Supporting Good Supply-base World-class Jnacceptable Eliminating Suppliers/ Suppliers Core Strategies

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TABLE OF CONTENTS

Overview of PRI/Nadcap	
Organizational Structure	
PRI and the GDPR	
Photo Release	3
Nadcap Subscribers	4
Future Nadcap Meetings	5
Task Groups (Operational)	5
Getting the Most Out of Nadcap	6
Antitrust Statement	7
Nadcap Personal Code of Ethics & Conflict of Interest	7
Neutrality	8
Export Control	8
Membership Responsibilities	8
Membership Categories	9
Membership & Task Group Officer Codes	10
Meeting Participation & Voting Procedures	11
Supplier Voting Member Policy	11
PRI Board of Directors	12
A -l	
Administrative Committees	10.11
Nadcap Management Council	
Supplier Support Committee	15-16
Task Groups	
Aero Structure Assembly (ASA)	17
Aerospace Quality System (AQS)	18
Chemical Processing (CP)	
Coatings (CT)	
Composites (COMP)	
Conventional Machining as a Special Process (CMSP)	
Elastomer Seals (SEAL)	
Electronics (ETG)	
First Article Inspection (FAI)	
Fluid Distribution Systems (FLU)	
Heat Treating (HT)	
Materials Testing Laboratories (MTL)	33-34
Measurement & Inspection (M&I)	
Metallic Materials Manufacturing (MMM)	36
Nonconventional Machining and Surface Enhancement (NMSE)	37-38
NonDestructive Testing (NDT)	
Non Metallic Materials Manufacturing (NMMM)	
Non Metallic Materials Testing (NMMT)	
Sealants (SLT)	
Welding (WLD)	
• · · · · · · · · · · · · · · · · · · ·	
General	
Global Staff E-Mail Addresses/Telephone Extensions	
EAN Training Sessions	
NCSI (Nadcap Customer Service Initiative)	
Subscriber Orientation & Tutorial	
New Supplier Information Session	
Supplier Support Committee Meeting	49

OVERVIEW PRI / Nadcap

Nadcap is an unprecedented cooperative industry effort to improve quality, while reducing costs, for quality assurance throughout the aerospace and defense industries. Nadcap is an industry-managed approach to conformity assessment that brings together technical experts from both industry and government in the Nadcap organization. Prime contractors, suppliers, and representatives from the Government work together to establish requirements for accreditation, approve suppliers and define operational program requirements. Unlike traditional third-party programs, Nadcap is an industry managed program. This process results in a standardized approach to quality assurance and a reduction in redundant auditing throughout the aerospace industry because industry has joined forces to develop a program that:

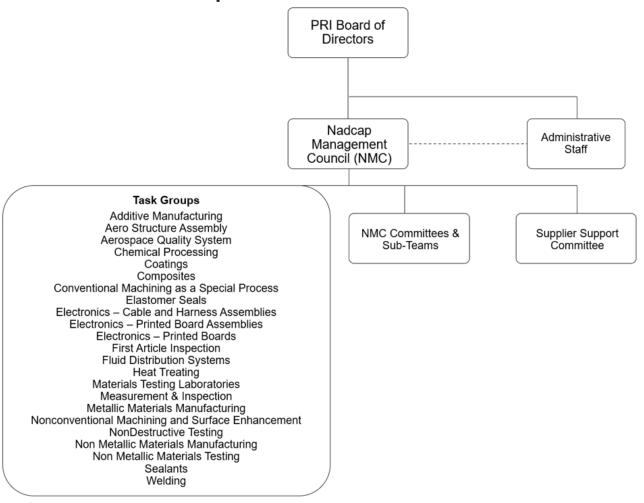
- Establishes stringent audit criteria and requirements to meet industry consensus standards of all participants
- Replaces routine auditing of suppliers with one approved through a consensus decision-making process of members from the user community
- Conducts more in-depth, technically superior special process audits
- Improves supplier quality throughout industry through stringent requirements
- Reduces costs through improved standardization
- Utilizes technically expert auditors to assure process familiarity
- Provides more frequent audits for primes, fewer audits for suppliers

Beneficiaries of improvements resulting from Nadcap are as diverse as Nadcap's many customers. A participating prime contractor reports a saving of over \$1 million annually while achieving technically superior audits. An accredited Nadcap supplier has tracked a 97% reduction in rework resulting from improvements to their system stemming from Nadcap requirements.

Nadcap Facts

- Nadcap has over 4,200 accredited auditee locations of special processes and products listed on the Nadcap Qualified Manufacturers List (QML)
- Nadcap has conducted in excess of 100,000 audits since 1990 with 6100 audits expected in 2023
- Subscribing prime contractor/government 58

ORGANIZATIONAL STRUCTURE Nadcap MANAGEMENT COUNCIL



PRI and the GDPR

PRI values our relationship with you and we understand that respecting your personal information is an important part of the trust between us. It is our aim to be completely transparent about how we collect and use the personal information you provide to us. We use the information you provide to us prior to and during Nadcap meetings for our mutual legitimate interest, to create the documents associated with the meeting such as attendee badges and meeting minutes. PRI's privacy statement is available online at https://p-r-i.org/privacy/ and at the Nadcap meeting registration desk.

If you have any questions, contact GDPR@p-r-i.org or any member of PRI staff.

Photo Release

Photographs may be taken by the Nadcap Meeting organizers and the Nadcap Meeting organizers may use them in news or promotional materials whether in print, electronic format or other media, including the conference website. By participating in and registering for the Conference, you grant Performance Review Institute (PRI) and Nadcap the right to use your name and/or photograph for such purposes. Other attendees may also take photographs at the meeting for their own use. These should not be in any commercial context without prior written approval from PRI. If you have any questions, contact privacy@p-r-i.org or any member of PRI Staff.

Nadcap SUBSCRIBING PRIME CONTRACTORS/ GOVERNMENT MEMBERS

- AECC Commercial Aircraft Engine Co. Ltd. *
- Aerojet Rocketdyne
- Air Force
- Airbus
 - Airbus Canada Limited Partnership
 - Airbus Commercial Aircraft
 - Airbus Defence and Space
 - Airbus Helicopters
 - Premium AEROTEC GmbH
- ArianeGroup
- BAE Systems Air
- BAE Systems, Electronic Systems
- Ball Aerospace
- The Boeing Company
- Bombardier Inc.
- COMAC
- Dehavilland Aircraft of Canada LTD
- Eaton Aerospace
- Embraer
- General Atomics Aeronautical Systems, Inc.
- GE Aviation
 - GE Avio S.r.I.
- GKN Aerospace Filton
- GKN Aerospace Sweden AB
- General Dynamics
 - Gulfstream Aerospace
- Héroux Devtek Inc.
- Honeywell Aerospace
- Israel Aerospace Industries
- L3Harris Technologies

- Latecoere
- Leonardo S.p.A Divisione Velivoli
- Leonardo Helicopters
- Liebherr-Aerospace Lindenberg GmbH
- Lockheed Martin Corporation
 - Sikorsky Aircraft
- MBDA UK Ltd
- Mitsubishi Heavy Industries (MHI)
- MTU Aero Engines AG
- NASA
- Northrop Grumman Corporation
- Ogden Air Logistics Complex
- Parker Aerospace Group
- Raytheon Technologies
 - Collins Aerospace (Goodrich)
 - Collins Aerospace (Hamilton Sundstrand)
 - Collins Aerospace (Rockwell Collins)
 - Pratt & Whitney
 - Pratt & Whitney Canada
 - Raytheon Intelligence & Space (RI&S) and Raytheon Missiles & Defense (RMD)
- Rolls-Royce
- SAFRAN Group
- Singapore Technologies Aerospace
- Sonaca
- Spirit AeroSystems
- Textron Inc.
 - Bell
 - Textron Aviation
- Thales

For updated information, please visit the PRI Website at www.p-r-i.org

^{*}Provisional Subscriber

FUTURE Nadcap MEETINGS

October 23-26, 2023 Omni William Penn

530 William Penn Place Pittsburgh, PA 15219

USA

*Single/Double room rate per night: \$193.00

TASK GROUPS (OPERATIONAL)

Abbreviation Program Name

AM Additive Manufacturing
ASA Aero Structure Assembly
AQS Aerospace Quality System

CP Chemical Processing CT Coatings

COMP Coatings
Composites

CMSP Conventional Machining as a Special Process

SEAL Elastomer Seals

ETG Electronics

FAI First Article Inspection
FLU Fluid Distribution Systems

HT Heat Treating

M&I Measurement & Inspection

MMM Metallic Materials Manufacturing MTL Materials Testing Laboratories

NDT NonDestructive Testing

NMC Nadcap Management Council

NMMM Non Metallic Materials Manufacturing

NMMT Non Metallic Materials Testing

NMSE Nonconventional Machining and Surface Enhancement

SLT Sealants (Manufacturers & Distributors)

WLD Welding

GETTING THE MOST OUT OF Nadcap

The benefits received by member companies vary in direct proportion to their participation and flow down into their own corporate structures. Nadcap is a tool that provides significant benefits when utilized properly. In order to maximize your benefits from Nadcap, the following tips will help:

For Subscriber Members

- 1. Clearly define your objectives, support, and expectations for Nadcap. Share this information with your company's key personnel and Nadcap representatives. Ensure that management decisions (e.g., require or accept Nadcap accreditation and stop own auditing) are incorporated by organization.
- 2. Select personnel to represent your company to the task group who have demonstrated expertise in the task group area of responsibilities. Ensure all attendees have a basic understanding of the Nadcap process.
- 3. Ensure appropriate personnel in your company (sourcing & quality) are familiar with Nadcap's operation and the company's policies concerning Nadcap.
- 4. Address changes necessary in your current operations to provide for maximum implementation of Nadcap throughout your corporate structure.

For Supplier Members

- 1. Understand the objectives of Nadcap and participate in the improvement of the process. Attend Supplier events and meetings.
- 2. Utilize the many resources available on the PRI Website (www.p-r-i.org) and EAN (www.eAuditNet.com). These resources are summarized in a document found at:

 $EAN \rightarrow Resources \rightarrow Documents \rightarrow Public\ Documents \rightarrow Supplier\ \rightarrow SSC\ Documents \rightarrow Nadcap\ Supplier\ Handbook$

- 3. Take advantage of the Supplier Mentoring program which can pair you with an experienced supplier to help you understand the common pitfalls in audits.
- 4. Perform a thorough and effective pre-audit well before your actual audit and correct any deficiencies found. Document your objective evidence.
- 5. After your Nadcap audit move swiftly to identify root causes and implement effective corrective actions in response to audit nonconformances.
- 6. Promote your success; notify your customers of your Nadcap accreditation.

ANTITRUST

Associations by nature involve communications or activities among members who are business competitors. Extreme care must be exercised to avoid policies, programs, dialogues, or pursuits, which could be seen as having an intention or result of restraint of trade. Conscientious antitrust compliance and fairness to participants demand that association meetings be conducted properly. Only legitimate subjects for association discussion should be undertaken. Chairpersons have been instructed that parliamentary rules and procedures should be followed at all meetings.

Nadcap Personal Code of Ethics and Conflict of Interest

All individuals (Subscribers, Suppliers, Staff, Auditors, etc.) involved with the Nadcap activity shall exhibit acceptable professional standards of conduct and uphold and advance the integrity of Nadcap.

Each individual is expected to exercise impartial professional judgment to assure confidence in the integrity of Nadcap by avoiding conflicts of interest in all Nadcap related activities.

When a competing interest has the potential to preclude or impair exercising one's independent professional judgment or unreasonably jeopardize the integrity of the Nadcap activity, the individual should disassociate themselves from that particular activity.

Any person associated with the Nadcap activity who believes that continued participation by any other person may jeopardize the integrity of Nadcap should bring the matter to the attention of the Nadcap Management Council.

All Nadcap Staff, its Auditors, Nadcap Management Council, and Task Group Members shall maintain proprietary or confidential information with which they become familiar as a result of their exposure to the supplier and/or reports during the accreditation process appropriately. Information of this type shall not be shared with individuals or organizations having no right to this information.

All individuals associated with the Nadcap audit and review process shall avoid using undue influence or personal conversation to influence the audit results or the review process.

Any known violations to the above policy may be reported to the ad hoc Nadcap Ethics Committee at NadcapEthics@p-r-i.org.

NEUTRALITY

In keeping with the spirit and purpose of the Nadcap program, Nadcap meetings and other Nadcapsponsored events are non-commercial events conducted for the benefit of all participants.

We respectfully request that companies refrain from any activity that serves a commercial purpose at a Nadcap meeting or other Nadcap-sponsored event, including but not limited to hosting a promotional event (hospitality suites, receptions, site tours, etc.) and distribution of marketing materials.

Any company that engages in such activities in conjunction with a Nadcap meeting or Nadcapsponsored event may be asked to leave the event and any promotional material may be destroyed.

EXPORT CONTROL

The Nadcap process accounts for the need to control the exchange of information, data, etc. that is restricted under export control regulations. This includes information which is shared or presented during Nadcap meetings, conference calls, and in discussions between meeting attendees. All attendees must take precautions to ensure that no information or material which is restricted under any export control regulation is included in any presentation or discussion during Nadcap meetings. If you are unsure as to whether or not the data with which you're working is restricted under the Export Administration Regulation (EAR), the International Traffic in Arms Regulation (ITAR), and/or any other international export control law(s), you are legally obligated to contact the organization with whom the data originated for clarification.

RECORDING POLICY

Audio or video recording of Nadcap meetings is prohibited unless formal approval is received from all attendees and recorded in the minutes. Violators of this policy will be asked to stop recording. Failure to stop recording or repeated attempts to record may result in expulsion from the meeting and/or the Nadcap program.

MEMBERSHIP RESPONSIBILITIES

- 1. Subscriber members are expected to attend all Nadcap meetings. If the member is unable to attend, an alternate may be designated.
- 2. Other Nadcap members should make arrangements to attend all meetings where policy, procedures, audit criteria, etc., will be discussed. Non-subscriber members shall review agenda to determine if they should attend.
- 3. Reply to surveys, questionnaires, and ballots that are circulated to members.
- 4. Carry through sponsorship and coordination of individual projects as assigned.
- 5. Prepare checklists for auditing and continuing surveillance.
- Review resumes and interview auditors.
- Review audit reports.
- 8. Participate in oversight audits.

MEMBERSHIP CATEGORIES

Subscriber Prime

Subscriber Prime members are those aerospace or defense contractor prime companies who are Nadcap Subscribers, and Design Approval holders or Design Authorities of Aviation, Defense. and/or Space products for end use products or significant systems or subsystems for such products. Companies qualifying as Subscribers supporting Commercial Aviation shall hold approvals such as Technical Standard Order (TSO), Type Certificate (TC), Supplemental Type Certificate (STC) or Design Organization Approval (DOA) from an applicable regulatory agency or have been delegated design authority for major aircraft sections such as the fuselage, wing, or empennage from companies holding such approvals. Companies qualifying as Subscribers supporting Defense or Space shall demonstrate Design Authority of active product which is recognized by the industry as end-use products or significant systems or subsystems (such as propulsion systems, brake systems, aero structure systems, or the equivalent). These Subscriber Members have the design authority to write their own special process specifications and have internal engineering organizations to provide technical directions and support. Subscriber organizations which are structured to provide networked resources within their corporation for design and special process technical directions and support may identify subsidiary organizations or joint ventures owned by only Subscribers as part of their Subscriber Agreement with associated rights and obligations provided such organizations either meet the Subscriber Prime criteria or provide special process services solely to their corporation or joint venture corporations and not to other customers.

Subscriber Government

Representative from government agencies. Has vote in all Nadcap activities.

Supplier

Active supplier who is participating in developing and revising audit criteria. Has vote in task groups on non-accreditation matters.

Liaison/Specialist

Individual who has specific technical knowledge for a particular task group.

Pending Subscriber

Same as Subscriber. This grade is temporary to allow new Subscribers to participate.

Guest

May attend Nadcap meetings. May attend audit reviews by invitation only.

MEMBERSHIP CODES

UVM SUBSCRIBER VOTING MEMBER - An appointed participator

of the Nadcap system.

SVM SUPPLIER VOTING MEMBER - A supplier member voting on

nonaccreditation matters within the Task Group.

ALT ALTERNATE VOTING MEMBER - A qualified individual

designated by a Voting Member to act in their absence.

MBR MEMBER - Appointed individual who participates by

attending meetings, answering questionnaires, and furnishing pertinent technical information and expertise. Member has no

formal vote.

GVT A government representative. If voting member, will have

"UVM" code.

LVM LIAISON VOTING MEMBER - A voting member representing

a corporation other than an OEM (i.e., a society or

association).

TASK GROUP Officer Codes

CHR Chairperson

VCH Vice Chairperson

SEC Secretary

MEETING PARTICIPATION AND VOTING PROCEDURES

Meeting Participation

- All attendees can attend open meetings.
- Closed meetings may be attended only by subscribers and pending/provisional subscribers.
 - At Closed meetings, audit reports are reviewed, or accreditation status of suppliers is discussed.
- NMC Voting Member Only meetings are restricted and may only be attended by NMC Voting Members.
- Other members may be included in Closed or NMC Voting Member Only meetings at the invitation of the Chairperson.

Voting

- Nadcap Management Council: Majority of eligible members present with a minimum of five subscriber members.
- All other meetings: Majority of eligible members present with a minimum of three subscriber members, or per Task Group procedure.
- When discussing critical issues, the chairperson may call for voting members or subscriber members vote only.

NMC SUPPLIER VOTING MEMBER POLICY

Each Nadcap commodity task group may have one appointed supplier member (who may have an alternate) with full voting privileges at Council, on non-accreditation matters. The Nadcap Management Council Chairperson will maintain the right to call for a Subscriber vote only.

PRI BOARD OF DIRECTORS

Doug Ackerman

Vice President, BCA Supplier Quality
The Boeing Company

Anne Barussaud

VP Materials & Processes Safran

Kim Killackey

VP, Supplier Quality and External Contract Manufacturing Baxter Healthcare Corporation

Oliver Kraatz

Head of Quality Procurement and Quality Cabin Program Airbus SAS

Peter Lord

Quality Director – Civil Aerospace Operations Rolls-Royce

Andy Maher

Quality Director BAE Systems – Air

Craig Nelson

VP, Global Procurement Stryker Corporation

David L. Schutt, PhD

President

Performance Review Institute

Suguru Watanabe

Director of Quality Department Commercial Aviation Systems Mitsubishi Heavy Industries, Ltd.

Jianqiang "Jason" Xu

Deputy General Manager of Quality
Airworthiness & Safety Department
C919 Program Chief Quality Officer
Research Fellow
Commercial Aircraft Corporation of China, Ltd. (COMAC)

NADCAP MANAGEMENT COUNCIL (NMC)

PRI Staff Contacts:

Jim Lewis, +1.724.772.8688, jlewis@p-r-i.org Susan Kosis, +1.724.772.8650, skosis@p-r-i.org Lisa Ippolito, +1.724.772.4093, lippolito@p-r-i.org

NMC Leadership:

Chairperson: Craig Bowden, BAE Systems – Air (UK) **Vice Chairperson**: Steven Meyer, Spirit AeroSystems

NMC Members

Subscriber Voting Members (UVM)

· ·	•
Airbus Canada Limited Partnersh	ip Alexandre Bourgeois
Airbus Commercial Aircraft	Andreas Kielies
Airbus Defence & Space	
Airbus Helicopters	
BAE Systems, Electronic System	s. Sally Vacco
BAE Systems – Air	Craig Bowden
	Alternate: Daniel Calderwood
Ball Aerospace	Terry Curtland
The Boeing Company	Timothy Ditch
	Alternate: Michael Terry
Bombardier Inc.	Frederic Grenon
Collins Aerospace (Goodrich)	Scott Maitland
Collins Aerospace (Hamilton Sun	dstrand)Scott Iby
Collins Aerospace (Rockwell Col	lins)Carrie Reed
Eaton, Aerospace Group	Emily Hoiles
	Alternate: Steven Dix
Embraer S.A.	
General Atomics Aeronautical Sy	
	Alternate: Jerry Lee
GE Aviation	
	Alternate: Dale Lombardo
GKN Aerospace Sweden AB	
Héroux-Devtek	
Gulfstream Aerospace	_
	Alternate: Richard Shain
Honeywell Aerospace	
	Alternate: Nicolas Diaz
	Alternate: Scott O'Connor
Israel Aerospace Industries	
L3Harris Technologies	
	Alternate: Joel Diaz

NMC Committee Chairs:

Continuous Improvement: Scott Maitland, Collins Aerospace (Goodrich)

(Goodrich)

Ethics & Appeals: Craig Bowden (Acting Chair), BAE Systems – Air (UK)

Globalization & Strategy: Steven Meyer, Spirit AeroSystems **Metrics**: Daniel Muenter, Liebherr-Aerospace Lindenberg GmbH

Oversight: Gina Fuzzell, Lockheed Martin Corp. Standardization: John Pfeiffer, GE Aviation

Subscriber Accreditation: Scott O'Connor, Honeywell

Aerospace

Leonardo S.p.A. Divisione Velivo	oli Marco Poletto
Eddinardo O.p., t. Dividiono volivo	Alternate: Nicol Sferragatta
Leonardo S.p.a. – Helicopters	•
Zoonardo o.p.a. Troncoptoro	Alternate: Fabrizio Quadrini
Liebherr-Aerospace Lindenberg	
Elebriori Aerespass Emacriberg	Alternate: Florian Breyer
Lockheed Martin Corporation	•
·	Alternate: Megan Hughes
MBDA UK Ltd	
	Alternate: Chris Garman
MHI	Masahiro Kawamoto
	Alternate: Takuya Konno
MTU Aero Engines AG	•
Northrop Grumman Corporation	
Ogden Air Logistics Complex	
Parker Aerospace	
Pratt & Whitney	
7	Alternate: Melissa Facas
Pratt & Whitney Canada	François-Simon Gauthier
Raytheon Intelligence & Space (I	
Missiles & Defense (RMD).	
Rolls-Royce	Shaun Brewin
	Alternate: Patrick McGinty
SAFRAN Group	Latchezar Anguelov
Sonaca	Laurent Geerts
Spirit AeroSystems	Steven P. Meyer
	Alternate: Teresa Ingram
	Alternate: Troy Grim
Textron Aviation	John Kasowski
	Alternate: Jeff Cerre

Alternate: Alessandro Laham

NADCAP MANAGEMENT COUNCIL (NMC)

NMC Members, continued

Supplier Voting Members (SVM)

AQS Task Group	Johanna Lisa (Continental Heat Treating)
	Tommy Howland (Lee Aerospace)
CP Task Group	Jim Cummings (<i>Metal Finishing Company</i>)
	Steve Payne (<i>Praxair Surface Technologies</i>)
	Alternate: Kristen Larson (Hitemco)
HT Task Group	
	Alternate: Edward Engelhard (Solar Atmospheres, Inc)
M&I Task Group	Amy Powers (Meyer Tool, Inc.)
	Brian Reynolds (<i>Arconic</i>)
MTL Task Group	David Luoni (<i>Element Materials Technology</i>)
	Rob Yocom (Imagineering Finishing Technologies)
NMSE Task Group	
	Christopher Webb (PCC Structurals Inc.)
	Dale Harmon (Cincinnati Thermal Spray)

SUPPLIER SUPPORT COMMITTEE (SSC)

PRI Staff Contacts:

Jim Lewis, +1 724.772.8688, jlewis@p-r-i.org Connie Hess, +1.724.772.8660, chess@p-r-i.org Cynthia Nixon, +1.724.772.8659, cnixon@p-r-i.org SSC Leadership:

Chairperson: Dale Harmon, Cincinnati Thermal Spray

Mission Statement:

The Nadcap Supplier Support Committee (SSC) mission is to represent the Supplier community and work with the Nadcap Management Council (NMC) to enhance the effectiveness and economical value of the Nadcap system for the mutual benefit of Suppliers and Subscribers.

Vision Statement:

The Supplier Support Committee (SSC), a body of Supplier volunteers, serves as a consolidated voice to the NMC and advocates on behalf of all Suppliers. The SSC will contribute as a trusted partner with all stakeholders to the continual effectiveness of the Nadcap process.

Our success will be realized through strict adherence to our core values of respect, responsiveness, engagement and accountability.

Core Values:

Respect:

Support the entire Supplier community with mutual respect.

Responsiveness:

Capture, listen and respond to the Supplier needs/questions in a timely manner.

Engagement:

Create an atmosphere that promotes Supplier involvement.

Accountability:

Accountability rests on the contributions of the Leadership Team.

Guiding Principles:

We are committed to...

- The integrity of our relationship with our fellow Suppliers and value their participation and commitment to continuous program improvement
- Complete transparency to maintain the value of the Supplier voice
- Facilitating alignment between the Suppliers, PRI and NMC
- · Communicating with all stakeholder groups that allows innovative ways to enhance the program
- Sustaining advocacy of all current and future Supplier needs and expectations
- Assisting Suppliers with their non-technical needs

SUPPLIER SUPPORT COMMITTEE (SSC)

PRI Staff Contacts:

SSC Leadership:

Jim Lewis, +1 724.772.8688, jlewis@p-r-i.org Connie Hess, +1.724.772.8660, chess@p-r-i.og Cynthia Nixon, +1.724.772.8659, cnixon@p-r-i.org Chairperson: Dale Harmon, Cincinnati Thermal Spray

SSC Leadership Team (SSC LT)

	Dale Harmon, (Cincinnati Thermal Spray – Midwest)Steve Payne, (Praxair Surface Technologies)
	Dennis Reidy, (CIL Inc.)

	Shelly Lawless, (Meyer Tool Inc)
	Lei Bao, (NCS Testing)
	Ronald Hendriks, (Chemetall GmbH)
SSC LT Europe	Bruno Roost, (Franke Industries AG)
SSC Sub Team Leaders	
	Steve Payne, (Praxair Surface Technologies)
	Bruno Roost, (Franke Industrie AG)
	Jonathan Hebben, (Monogram Aerospace Fasteners)
	Shelly Lawless, (Meyer Tool Inc.)
Supplier Survey	Jonathan Hebben, (Monogram Aerospace Fasteners)
SSC Task Group Representatives	
AQS Task Group	Kenneth Nelson, (Continental Heat Treat)
CP Task Group	Ali Bakr, (Nico Products, Inc)
CMSP Task Group	Richard Haberbosch, (Aerotech Peissenberg GmbH & Co KG)
	Sally Spindor, (Radius Aerospace – Ft. Worth, Inc.)
	Jeff Tomczak, (TECHMETALS Inc.)
	Wayne Cleland, (Celestica International LP)
	Roy Adkins, (<i>Braddock Metallurgical Daytona Beach</i>)
	Natia Turmanidze, (Schlosser Forge Company)
	Dally Espejo, (VDM Metals USA, LLC)
	Rob Yocom, (Imagineering Finishing Technologies)
	Shelly Lawless, (Meyer Tool Inc.)
	Steven Booker, (Dupont Specialty Products)
	Ronald Hendriks, (Chemetall GmbH)
WLD Task Group	Bruno Roost, (Franke Industrie AG)

AERO STRUCTURE ASSEMBLY (ASA)

The Aero Structure Assembly Task Group is conducting audits to demonstrate compliance to the PRI AC7135 series of documents. These audits address the following types of processes:

- Fit, Alignment and Shimming
- Hole Preparation
- Electrical Bonding

PRI Staff Engineer Contacts:

Keith Purnell, +1.724.772.8685, kpurnell@p-r-i.org

- · Fastener Installation
- Sealing of Aero Structure Assemblies and Components
- · Bushing and Bearing Installation

Task Group Leadership:

Chairperson: John Craig, Lockheed Martin Corporation **Vice Chairperson**: Nikolaus Holthusen, Airbus Commercial

Aircraft

Secretary: Andrea Lorg, Spirit AeroSystems

Task Group Members

Airbus Canada	Francois Beauvais
Airbus Commercial Aircraft	
Airbus Defense and Space	
	Alternate: Concepción Madinabeitia
BAE Systems – Air	Paul Fletcher
	Alternate: Craig Bowden
Lockheed Martin Corporation	John Craig
Northrop Grumman Corporation	
	Alternate: Russ Cole
Sonaca	Michel Princen
	Alternate: Laurent Geerts
Spirit AeroSystems	Andrea Lorg
Supplier Voting Members (SVM)	
Ducommun AeroStructures New York, Inc.	
Lee Aerospace	
	Alternate: Emily Duke
Turkish Aerospace	Rafet Yigit Sezginer
	Alternate: Erdem Mermer

AEROSPACE QUALITY SYSTEM (AQS)

The Aerospace Quality System Task Group conducts audits to demonstrate compliance to PRI AC7004. This quality system is required where no quality system approval exists in accordance with Nadcap Program Document PD 1100 and Operating Procedure OP 1104.

PRI Staff Engineer Contacts:

Susan Frailey, +1.724.772.4243, sfrailey@p-r-i.org

Task Group Leadership:

Chairperson: Saaed Cheema, Textron Aviation

Vice Chairperson: Scott O'Connor, Honeywell Aerospace

Secretary: Teresa Ingram, Spirit AeroSystems

Task Group Members

Subscriber Voting Members (UVM)			
The Boeing Company	Robin Borrelli	Rolls-Royce	Karolina Kucharek
Alte	ernate: Martha Cordova Landa	Sikorsky (Lockheed Martin)	John Merritt
	Alternate: Zulema Garcia	Spirit AeroSystems	Teresa Ingram
	Alternate: Carolyn Backus		Alternate: Chris Davison
	Alternate: Liesel Weisling	Textron Aviation	Saeed Cheema
Collins Aerospace (Goodrich)	Angelina Mendoza		Alternate: Jeffrey Cerre
GE Aviation	Bill Frazier	USAF Ogden Air Logistics	Seth Babcock
Honeywell Aerospace	Scott O'Connor		
Supplier Voting Members (SVM)			
Consolidated Precision Products	Michael Snyder	Metal Finishing Company, Inc	Jim Cummings
Continental Heat Treating	Ken Nelson	Nico Products, Inc.	Ali Bakr
	Alternate: Johanna Lisa	PCC Aerostructures	Manuel Mencia
Element Materials Technology	Jennifer Kent	Tech Met	Jim Tuminello
	Alternate: Justin Riebesel	Wolkerstorfer Co., Inc.	John Peterson
	Alternate: Katja Danson		
	Alternate: Deborah Sykes		
	AQS Liaisons		
CP Task Group	Michael Vosatka	M&I Task Group	Steve Row
CT Task Group	Joel Mohnacky	NDT Task Group	Mike Coleman
COMP Task Group	Doug Armstrong	NMSE Task Group	Caroline DesLandes
ETG Task Group	Bill Beair	WLD Task Group	Saeed Cheema
HT Task Group	Earl Pruett		

CHEMICAL PROCESSING (CP)

The Chemical Processing Task Group is conducting audits to demonstrate compliance to the AC7108 series of documents. These audits address the following types of processes:

- Acid Cleaning, Passivation and Electro-Polishing
- Anodizing
- Brush Anodizing and Plating
- Chemical Milling and Alpha Case Removal

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- · Cleanliness Verification
- · Conversion and Phosphate Coating
- Electro / Electroless Plating
- Etch Inspection
- Paint and Dry Film Lubricant Application
- Pre-Penetrant Etching

- Solution Analysis and Testing
- Stripping of Coatings
- Surface Preparation Prior To Metal Bond
- Vacuum Cadmium Deposition and Ion Vapor Deposition-Aluminum

PRI Staff Engineer Contacts: Task Group Leadership:

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CHEMICAL PROCESSING (CP)

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Westfield Electroplating Co.	
X-Ray Industries, Inc.	

COATINGS (CT)

The Coatings Task Group is conducting audits to demonstrate compliance to the PRI AC7109 series of standards. These documents contain the Nadcap requirements for the following:

- Thermal Spray
- Vapor Deposited Coatings

PRI Staff Engineer Contacts:

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- Stripping of Coating Materials
- Coating Evaluation

Plating of Coated Parts

Heat Treating of Coated Parts

Grinding of Coatings

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ATTENTION ALL Nadcap COATINGS (CT) SUPPLIERS

In order to smoothly facilitate your upcoming Nadcap initial or re-accreditation audit, the Nadcap Coatings Task Group would like you to be aware that numerous self-help items have been developed to guide you through the process. The path provided below will lead you to the Coatings Audit Handbook file which is a quick and easy reference tool providing numerous self-help items pertinent to every stage of the Nadcap audit process. You are encouraged to take advantage of these valuable self-diagnostic references prior to your Nadcap audit. Of particular interest is Appendix 5 covering Resources and Documents, which provides a reference to the key procedures and resources relevant to the Nadcap audit. They may help you to avoid many of the most common findings and maximize your benefit throughout the audit while minimizing overall costs to your business.

Path: EAN→Resources→Documents→Audit Criteria→Coatings→Handbooks & Guides→Coatings Audit Handbook

The Nadcap Coatings Task Group is committed to continually improving the program for all participants and welcomes all suggestions that support their efforts. Please do not hesitate to contact John Winne with your suggestions or attend a Nadcap meeting to contribute your ideas in person.

COMPOSITES (COMP)

The Composites Task Group is conducting audits to demonstrate compliance to the PRI AC7118. These audits address the Nadcap requirements for the following processes:

- CMP Compression Molding
- CP Core Processing
- KSP Kitting Service Provider

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- LRP Liquid Resin Processing
- MB Metal Bonding
- PAR Prepeg/Adhesive Bonding/Resin Film Infusion

Task Group Leadership:

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Secretary: John Key, Bell Textron Incorporated

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COMPOSITES (COMP)

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CONVENTIONAL MACHINING AS A SPECIAL PROCESS (CMSP)

The Conventional Machining as a Special Process (CMSP) Task Group is conducting audits to demonstrate compliance to the AC7126 series of checklists for conventional machining as a special process. These audits address the following types of processes:

- Holemaking
- **Turning**
- Grinding

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- Broaching
- Milling
- Edge Treatment

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ELASTOMER SEALS (SEAL)

The Elastomer Seals Task Group is conducting product audits to demonstrate compliance to AC7115. Audit elements include: O-rings, plate seals / rubber bonded to substrates, molded shapes, compounding, compression seals, and fabric/textile reinforced seals.

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ELECTRONICS (ETG)

Cable and Harness Assemblies (CHA)

The Electronics Task Group is conducting electronics audits to demonstrate compliance to AC7121 Cable and Harness Assemblies.

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ELECTRONICS (ETG)

Printed Board Assemblies (PBA)

The Electronics Task Group is conducting electronics audits to demonstrate compliance to AC7120 Circuit Card Assemblies.

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ELECTRONICS (ETG)

Printed Boards (PB)

The Electronics Task Group is conducting electronics audits to demonstrate compliance to AC7119 Printed Boards.

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FIRST ARTICLE INSPECTION (FAI)

The First Article Inspection Task Group is conducting audits to demonstrate compliance to the PRI AC7150 series of documents. These Audits address the Nadcap requirements for First Article Inspection (AS9102).

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FLUID DISTRIBUTION SYSTEMS (FLU)

The Fluid Distribution Systems Task Group is conducting product audits to demonstrate compliance to AC7112, AC7112/1, AC7112/2, AC7112/3, AC7112/4, AC7112/6 and AC7123. These audits address the following:

- Hose Manufacturing
- Fittings & Other Machined Components
- Couplings

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- Hose Assembly
- Value Added Hose Assembly Distributors
- Titanium Tubing Manufacturers

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HEAT TREATING (HT)

The Heat Treating Task Group has developed AC7102 requirements and audit criteria that include the following:

- Metal Systems Carbon & Alloy Steels, Stainless Steel, PH Stainless Steels, Cast Iron, Aluminum Alloys, Titanium Alloys, Heat Resisting Alloys, Magnesium, Other Nonferrous Metals
- Heat Treating Processes Normalizing, Annealing, Hardening and Tempering, Solution Heat Treating, Aging, Carburizing, Nitriding, Stress Relieving, Induction Hardening, Hot Isostatic Pressing (HIP), Sintering and Localized Heat Treating
- Heat Treating Equipment Furnace, Pyrometry, Instrumentation, Atmospheric Control System, Quench Systems
- Brazing

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HEAT TREATING (HT)

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MATERIALS TESTING LABORATORIES (MTL)

This task group has published the checklists (AC7101/1 – AC7101/7, AC7101/9, AC7101/11, & AC7006) for Materials Testing Laboratories. Types of activities being accredited:

- ISO/IEC 17025 Requirements
- Chemical Testing
- Mechanical Testing

- Metallography (Micro & Macro)
- Hardness
- Corrosion

- Microhardness
- Test Specimen Preparation
- Fastener Testing

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MEASUREMENT & INSPECTION (M&I)

The Measurement & Inspection Task Group is conducting audits to demonstrate compliance to PRI AC7130 checklists. These audits address the Nadcap requirements for the following processes:

- AC7130/1 Coordinate Measuring Machines (CMM)
- AC7130/2 Laser Tracker
- AC7130/3 Articulating Arm
- AC7130/4 3D Structured Light Scanning

- AC7130/5 Mass Airflow Measurement of Turbine Engine Parts
- AC7130/6 General Inspection

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METALLIC MATERIALS MANUFACTURING (MMM)

The Metallic Materials Manufacturing Task Group has developed requirements and audit criteria that include the following:

- AC7140 Nadcap AUDIT CRITERIA FOR Metallic Materials Manufacturing For FORGINGS
- AC7141 Nadcap AUDIT CRITERIA FOR Metallic Materials Manufacturing For Investment Casting
- AC7142 Nadcap AUDIT CRITERIA FOR Metallic Materials Manufacturing For Sand Casting

The Task Group is also working on:

AC7143 Nadcap AUDIT CRITERIA FOR Metallic Materials Manufacturing For Powder – Additive Manufacture

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NONCONVENTIONAL MACHINING and SURFACE ENHANCEMENT (NMSE)

The Nonconventional Machining and Surface Enhancement (NMSE) Task Group is conducting audits to demonstrate compliance to the AC7116 series of checklists for nonconventional machining. These audits address the following types of processes:

Nonconventional Machining

- 1. Electrochemical Machining (ECM)
- 2. Electrochemical Grinding (ECG)
- 3. Electrical Discharge Machining (EDM)

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- 4. Laser Beam Machining (LBM)
- 5. Laser Part Marking (LPM)
- 6. Spark Erosion Grinding (SEG)
- 7. Abrasive Water Jet Machining (AWJM)

Task Group Leadership:

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NONCONVENTIONAL MACHINING and SURFACE ENHANCEMENT (NMSE)

The Nonconventional Machining and Surface Enhancement (NMSE) Task Group is conducting audits to demonstrate compliance to the AC7116 series of checklists for nonconventional machining. These audits address the following types of processes:

Surface Enhancement

- Computer Controlled Peening
- Automated Peening
- Peen Forming

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- Flapper Peening
- 5. Manual Peening
- Needle Peening

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NONDESTRUCTIVE TESTING (NDT)

The NonDestructive Testing Task Group is currently reviewing audit reports and making recommendations to Nadcap Council on accreditation for the following tests:

- Magnetic Particle
- Liquid Penetrant
- Ultrasonic Survey-Rotating Components
- Ultrasonic
- Radiography
- Computed Radiography
- NANDTB Audit

- Eddy Current
- Digital Radiography, Digital Detector Array
- Remote Image and Film Viewing

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NONDESTRUCTIVE TESTING (NDT)

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	Alternate: Thomas Fletcher
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	Alternate: Mark Pompe
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NON METALLIC MATERIALS MANUFACTURING (NMMM)

The Non Metallic Materials Manufacturing Task Group is conducting audits to demonstrate compliance to the PRI AC7124. These audits address the Nadcap requirements for the following processes:

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Prepeg Manufacturing

Adhesive Manufacturing

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Northrop Grumman Aerospace Structures	Karen Quinn		

Alternate: Bryan Loveless

NON METALLIC MATERIALS TESTING (NMMT)

The Non Metallic Materials Testing Task Group is conducting audits to demonstrate compliance to the PRI AC7122-I for Independent Testing Laboratories, PRI AC7122-P for Part Manufacturers Captive Laboratories and PRI AC7122-R for Raw Materials Manufacturers Captive Laboratories. These audits address the Nadcap requirements for the testing of Class A: Composites and Class B: Adhesive/Adhesive Primer

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Physical Testing

Chemical Testing Thermal Testing

Flammability Testing

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	Alternate: Kevin Vaughan		Alternate: Tim Esau
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	Alternate: Ryan Finley	Westmoreland Mechanical Testing & Resea	arch, Inc. Jeffrey Rossi
Leonardo Divisione Aerostrutture	Luca Monopoli		
Integrated Technologies, Inc.	Gordon Cameron		

SEALANTS (SLT)

The Sealant Task Group is conducting two types of audits for Nadcap accreditation:

- 1) Sealant Manufacturers: AC7200/1 Assessment of a sealant manufacturer's ability to provide a product that conforms to sealant specifications and customer requirements.
- 2) Value-Added Sealant Distributors: AC7200/2 Assessment of a sealant repackager's ability to provide sealant in a final package which include can kits, injection kits, pre-mixed and frozen (PMF), one-part cartridge, and PMF seal caps that conforms to sealant specifications and customer requirements.
- 3) Sealant Repackager: AC7200/3 Sealant repackagers that are not accredited to AC7200/1 to be able to perform packaging extensions for bulk material when initial acceptance testing is required.

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Vice Chairperson: Lindsay Schurle, Spirit AeroSystems Inc

Pratt & Whitney Melissa Facas

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Cytec Engineered Materials	, Solvay – D Aircraft		nate: Edward Aguirre, Jr.
	Pamela Borden Alternate: Bruce Gormley	Royal Adhesives & Sealants, LLC, AP	•

WELDING (WLD)

Process specific requirements have been developed by the Welding Task Group and are contained in the AC7110 series of checklists. Welding processes covered include:

- Additive Manufacturing
- Diffusion Welding
- Electron Beam Welding
- Flash Welding

- Friction/Inertia Welding
- Fusion Welding
- Laser Welding
- Percussion Stud Welding
- Resistance Welding
- Torch/Induction Brazing
- Welder/Welding Operator
 - Qualification
- Evaluation of Welds

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WELDING (WLD)

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- Resistance Welding
- Torch/Induction Brazing
- Welder/Welding Operator Qualification
- Evaluation of Welds

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Training Sessions

EAN Overview for Subscribers

Monday, June 26th 10:30 am – 11:30 am

EAN Overview for Suppliers

Monday, June 26th 3:00 pm – 4:00 pm

Introduction to PRI/Nadcap

The Introduction to PRI/Nadcap is a free, web-based training program designed to teach suppliers more about the Nadcap process. This webinar training reviews multiple topics including: audit preparation, a review of Nadcap Operating Procedures, information on common findings, Root Cause advice, and more.

To better support the Nadcap supplier community, the Introduction to PRI/Nadcap training is now translated into French and German. Translations provide greater availability for suppliers, who can benefit from the information in their native language.

This webinar is offered by the PRI Training program free of charge as a live webinar option, and also as a recording to view online at your convenience. If you have any questions regarding this webinar, please contact a member of the PRI Training team or email PRI-Training@p-r-i.org.

Subscriber Orientation & Tutorial

All new Subscriber participants are advised to attend the Nadcap Subscriber Orientation & Tutorial at 9:00 a.m. on Monday, June 26th. The tutorial is a general Nadcap presentation geared toward Subscribers. It provides the audience with an overview of the structure and functionality of the Nadcap program as well as the opportunity to ask general Nadcap questions.

New Supplier Information Session

All new Supplier participants are advised to attend the New Supplier Information Session beginning at 9:00 am on Monday, June 26th. The tutorials are general Nadcap presentations geared toward Suppliers. It provides the audience an overview of the structure and functionality of the Nadcap program, as well as the opportunity to ask general Nadcap questions.

Supplier Support Committee (SSC)

The Supplier Support Committee's (SSC) Mission is to represent the supplier community and work with the Nadcap Management Council (NMC) to enhance the effectiveness and economical value of the Nadcap system for the mutual benefit of Suppliers and Subscribers. The SSC is made up of active Nadcap accredited Suppliers who are willing to help new Suppliers through the process, as well as assisting experienced Suppliers to establish, maintain, and improve their accredited processes. The focus of the SSC is on the overall Nadcap procedural process and issues which affect all Nadcap accredited Suppliers.

The SSC offers a Supplier Mentoring program, dedicated to assisting those Suppliers who are new to the process and/or those needing assistance with navigating through the Nadcap system by providing names and contact information of experienced Nadcap Suppliers. If you would like to work with a Mentor, please send an email to Nadcapsscaper-ri.org.

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As of 08 May 2023

This does not represent the official roster or guidelines for Nadcap Meetings.