**CONFIRMED MINUTES**

**JUNE 23, 2016**

**LONDON, UNITED KINGDOM**

**These minutes are not final until confirmed by the Management Council in writing or by vote at a subsequent meeting. Information herein does not constitute a communication or recommendation from the Council and shall not be considered as such by any agency.**

**THURSDAY, JUNE 23, 2016**

# OPENING COMMENTS

## Call to Order / Quorum Check

The Nadcap Management Council (NMC) Meeting was called to order at 9:00 a.m., 23-Jun-2016.

A quorum was established with the following representatives in attendance:

***Subscriber Members/Participants Present (\* Indicates Voting Member)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | NAME |  | COMPANY NAME |  |
|  |  |  |  |  |
|  | Shamim | Abbas | The Boeing Company |  |
|  | Kenneth | Abram | Honeywell Aerospace |  |
|  | Francesco | Acerra | Finmeccanica SpA - Aeronautics Sector |  |
|  | Michael | Adams | Lockheed Martin Corp. |  |
|  | Uchida | Akie | Mitsubishi Heavy Industries, Ltd. |  |
| \* | Latch | Anguelov | SAFRAN Group |  |
|  | Mark | Antonellis | BAE Systems |  |
| \* | Tomohiko | Ashikaga | Mitsubishi Heavy Industries, Ltd. |  |
| \* | David | Bale | Pratt and Whitney Canada |  |
|  | Jeb | Barnes | The Boeing Company |  |
|  | Steve | Bauer | Northrop Grumman Corp. |  |
|  | Chuck | Beargie | UTC Aerospace (Goodrich) |  |
|  | Marc | Berry | SAFRAN Group |  |
|  | Roger | Bloomfield | UTC Aerospace (Goodrich) |  |
|  | Robin | Borrelli | The Boeing Company |  |
|  | Elaine | Boswell | Rolls-Royce |  |
|  | Malik | Boutoba | Airbus Helicopters |  |
| \* | Craig | Bowden | BAE Systems – MAI (UK) |  |
|  | Mark | Bredbere | The Boeing Company |  |
| \* | Shaun | Brewin | Rolls-Royce | Proxy for Richard Blyth |
|  | Juergen | Burchards | MTU Aero Engines AG |  |
|  | Zeljko | Calija | UTC Aerospace Landing Systems (Goodrich) |  |
|  | Tara | Campbell | Rolls-Royce plc |  |
|  | William | Cardinal | UTC Aerospace (Hamilton Sundstrand) |  |
|  | Victor Sheng | Cheng | COMAC |  |
|  | Anthony | Clapham | The Boeing Company |  |
|  | Mike | Clark | Sikorsky - Lockheed Martin |  |
|  | Wojciech | Cmok | UTC Aerospace (Goodrich) |  |
|  | Ron | Cohen | Israel Aerospace Industries |  |
| \* | Russell | Cole | Northrop Grumman Corp. |  |
|  | Mike | Coleman | The Boeing Company |  |
|  | Alessio | Colombara | Finmeccanica SpA - Helicopter Division |  |
|  | Richard | Costantino | UTC Aerospace (Goodrich) |  |
|  | Christopher | Cowap | Triumph Group Inc. |  |
|  | Karen | Dannis | BAE Systems |  |
|  | Chris | Davison | Spirit AeroSystems |  |
|  | David | Day | GE Aviation |  |
|  | Martin | Day | Honeywell Aerospace |  |
|  | Kent | DeFranco | Lockheed Martin Corp. |  |
|  | Karyn | Deming | UTC Aerospace (Goodrich) |  |
|  | Andrew | Dewhurst | BAE Systems – MAI (UK) |  |
|  | Matteo Mario | Di Nardo | Boeing Operations International |  |
|  | Branislav | Domko | Honeywell Aerospace |  |
|  | Severin | Drogoul | Airbus |  |
|  | Vukile | Dumani | GKN Aerospace |  |
|  | Jean-Luc | Dupain | SAFRAN Group |  |
|  | Philippe | Durand | Airbus Helicopters |  |
|  | Vincent | Dutilh | SAFRAN Group |  |
|  | Mark | Emerson | Rolls-Royce |  |
|  | Kevin | Farnworth | BAE Systems |  |
|  | Jocelyn | Fortin | SAFRAN Group |  |
|  | David | Frohs | UTAS Goodrich Control Systems |  |
|  | Javier | Garcia-Baeza | Airbus |  |
|  | Steven | Garner | Eaton, Aerospace Group |  |
|  | Roy | Garside | Rolls-Royce |  |
|  | Robert | Gilbert | Lockheed Martin Corp. |  |
|  | Dan | Graves | UTC Aerospace (Goodrich) |  |
|  | Alexander | Haesch | Boeing Operations International, Inc. |  |
|  | Harry | Hahn | GE Aviation |  |
|  | Ulf | Hampel | MTU Aero Engines AG |  |
|  | Milan | Hanyk | Honeywell Aerospace |  |
|  | Michael | Hayward | Northrop Grumman Corp. |  |
|  | Glen | Heide | The Boeing Company |  |
|  | Brett | Hemingway | BAE Systems – MAI (UK) |  |
|  | Paul | Hogben | The Boeing Company |  |
|  | Xia | Hong | Rolls-Royce Singapore |  |
|  | Andy | Hopkins | BAE Systems – MAI (UK) |  |
|  | Jerry | Hulin | GKN Aerospace Filton |  |
|  | Jay | Irsik | Spirit AeroSystems |  |
|  | Dave | Isenberg | Parker Aerospace Group |  |
|  | Michel | Jacquaniello | Zodiac Aerospace |  |
| \* | Wendy | Jiang | COMAC |  |
|  | Stephen | Judge | Bombardier Aerospace |  |
|  | Kazuhiro | Kajima | Mitsubishi Heavy Industries, Ltd. |  |
|  | John | Key | Bell Helicopter |  |
|  | Patrick | Kiernan | Rolls-Royce |  |
| \* | Karen | Kim | Sikorsky - Lockheed Martin |  |
|  | David | Knack | Eaton, Aerospace Group |  |
| \* | Kevin | Knox | Rockwell Collins |  |
|  | Takuya | Konno | Mitsubishi Heavy Industries, Ltd. |  |
|  | Manuel | Koucouthakis | Honeywell Aerospace |  |
| \* | Ralph | Kropp | MTU Aero Engines AG |  |
|  | Holger | Krueger | Airbus Operations |  |
|  | Timothy (Tim) | Krumholz | Rockwell Collins |  |
| \* | Eric | Le Fort | Sonaca |  |
|  | Marc-André | Lefebvre | Héroux-Devtek Inc. |  |
|  | Cyril | Lerebours | SAFRAN Group |  |
|  | Susan | Lewis | Lockheed Martin Corp. |  |
|  | Xiaohan | Liu | COMAC |  |
|  | Lance | Loeks | The Boeing Company |  |
|  | Simon | Long | Airbus |  |
| \* | Howard (Jeff) | Lott | The Boeing Company | Chairperson |
|  | Dan | Loveless | Parker Aerospace |  |
|  | Joe | Lundin | UTC Aerospace (Goodrich) |  |
|  | William | Macias | UTC Aerospace (Goodrich) |  |
|  | Adrien | Maffre | Airbus |  |
|  | Nick | Magnapera | BAE Systems Inc. |  |
|  | Veronique | Marcel | SAFRAN Group |  |
|  | Russell | Mastergeorge | Parker Aerospace |  |
|  | Doug | Matson | The Boeing Company |  |
|  | Robin | McGuckin | Bombardier Aerospace |  |
| \* | Frank | McManus | Lockheed Martin Corp. |  |
|  | Dennis | Meehan | Pratt & Whitney |  |
|  | Charles | Mendes | GE Aviation |  |
|  | Angelina | Mendoza | UTC Aerospace (Goodrich) |  |
|  | John | Merritt | Sikorsky - Lockheed Martin |  |
|  | Scott | Meyer | UTC Aerospace (Goodrich) |  |
|  | Alessandro | Miglio | Finmeccanica SpA - Helicopter Division |  |
|  | Fabrizio | Montagnoli | Finmeccanica SpA - Helicopter Division |  |
|  | Graham | Morast | Pratt & Whitney |  |
|  | Antonietta | Mormone | Finmeccanica SpA - Aeronautics Sector |  |
|  | Gudrun | Muehlbauer | MTU Aero Engines AG |  |
|  | Tom | Norris | UTC Aerospace (Goodrich) |  |
|  | Junta | Okutsu | Honeywell Aerospace |  |
|  | Matthias | Otton | Latecoere |  |
|  | Keith | Panuska | Lockheed Martin Corp. |  |
|  | Alan | Partridge | Rolls-Royce |  |
|  | Richard | Perrett | GKN Aerospace |  |
|  | Eddy | Pham | Northrop Grumman Corp. |  |
|  | Vittoria | Pianese | Finmeccanica SpA - Aeronautics Sector |  |
|  | Marco Luigi | Poletto | Finmeccanica SpA - Aeronautics Sector |  |
| \* | Scott | Porterfield | Triumph Group Inc. |  |
|  | Earl | Pruett | Lockheed Martin Corp. |  |
| \* | Fabrizio | Quadrini | Finmeccanica - Helicopter Division |  |
|  | Robert | Rainone | UTC Aerospace (Goodrich) |  |
|  | Sunder | Rajan | Raytheon SAS |  |
|  | Alexandre | Richez | Airbus SAS |  |
|  | Amanda | Rickman | Raytheon |  |
|  | Philippe | Robin | Airbus |  |
|  | Josefa | Rodriguez Baena | Airbus Defence & Space - Military Aircraft | |
| \* | Norberto | Roiz-Lafuente | Airbus Defence & Space |  |
|  | Steve | Row | UTC Aerospace (Goodrich) |  |
|  | Dave | Royce | Pratt & Whitney |  |
|  | Pedro | Ruiz-Requena | Airbus Defence & Space |  |
|  | Ester | Sala-Bosch | Rolls-Royce Deutschland Ltd & Co KG |  |
| \* | Davide | Salerno | Finmeccanica SpA - Aeronautics Sector |  |
|  | María | Sánchez-Arjona | Airbus Defence & Space |  |
|  | Mike | Schmidt | GE Aviation |  |
| \* | Victor | Schonberger | Israel Aerospace Industries |  |
| \* | Scott | Severson | Rockwell Collins |  |
|  | Qi | Shao | COMAC |  |
|  | Kodai | Shimono | Mitsubishi Heavy Industries, Ltd. |  |
|  | Yuki | Shinagawa | Mitsubishi Heavy Industries, Ltd. |  |
|  | Naoki | Sogabe | Mitsubishi Heavy Industries, Ltd. |  |
|  | Russell | Spivey | Rolls-Royce Control Services |  |
|  | Ranganathan | Srinivasan | ST Aerospace Ltd. |  |
|  | Anne | Stanley | Bombardier Aerospace |  |
|  | Konstantina | Stefanidou | Honeywell Aerospace |  |
|  | Chris | Stevenson | Rolls-Royce |  |
|  | Josef | Stourac | Honeywell Aerospace |  |
|  | Marc | Taillandier | Airbus Helicopters |  |
|  | Pat | Thompson | Honeywell Aerospace |  |
|  | Jeffrey | Thyssen | GE Aviation |  |
|  | Steven | Tooley | Rolls-Royce |  |
|  | Thomas | Totten | Bombardier Aerospace |  |
|  | Fabrice | Trebeden | Airbus Helicopters |  |
|  | Nouman | Usmani | GE Aviation |  |
|  | Zia | Usmani | BAE Systems – MAI (UK) |  |
|  | Cyril | Vernault | SAFRAN Group |  |
|  | Fabrice | Virassamy | LATECOERE |  |
|  | Michael | Walsh | SAFRAN Group |  |
|  | Barry | Ward | Rolls-Royce |  |
|  | Scott | Wegener | Rockwell Collins |  |
|  | Gerhard | Westenrieder | MTU Aero Engines AG |  |
|  | Tom | Wilson | Bombardier Aerospace |  |
|  | Paul | Woolley | Rolls-Royce |  |
|  | Jianqiang | Xu | COMAC |  |
|  | Huiqing | Zhang | COMAC |  |

***Other Members/Participants Present (\* Indicates Voting Member)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | NAME |  | COMPANY NAME |  |
|  |  |  |  |  |
|  | Simon | Adam | Johnson & Johnson |  |
|  | Deniz | Akin Oner | TAI (Turkish Aerospace Industries, Inc.) |  |
|  | Fernando | Alarcon De Lastra Halcón | Canagrosa |  |
|  | Anita | Andrews | James Fisher NDT |  |
|  | Takahito | Araki | IHI Corporation |  |
|  | Soner | Atamer | TAI / TUSAS |  |
|  | Andy | Bakewell | E.M. Inspection Co. Ltd. |  |
|  | Lei | Bao | NCS Testing Technology Co., Ltd. |  |
|  | Eglantine | Baudrillart | SYPAC |  |
|  | Georgina | Beaver | Senior Aerospace - Thermal Engineering |  |
| \* | Corwyn | Berger | Exova |  |
|  | Bruno | Billeci | Exova PTP |  |
|  | Martin | Bridge | Bridge Associates |  |
|  | Claude | Chambon | Aubert & Duval |  |
|  | Stephane | Chaumeil | Galion |  |
|  | Larry | Collins | Nasmyth Technologies Ltd (Ferndown) |  |
|  | Joshua | Crockett | Ellison Surface Technologies |  |
|  | Pedro | De La Lastra | Canagrosa |  |
|  | Vicki | Delaney | Haynes International, Inc. |  |
|  | David | Eshleman | The Young Engineers.com |  |
|  | Ergun | Evrensel | TAI / TUSAS |  |
|  | Richard | Freeman | TWI Limited |  |
|  | Brendan | Fullam | Sturbridge Metallurgical Services, Inc. |  |
|  | Arie | Goldstien | Blades Technology Ltd |  |
|  | Dave | Gray | Mitchell Labs |  |
|  | Rob | Green | James Fisher NDT |  |
|  | Courtney | Grimes | Sturbridge Metallurgical services |  |
|  | Mesut | Guzel | TAI / TUSAS |  |
|  | Richard | Haberbosch | Aerotech Peissenberg GmbH & Co. KG |  |
| \* | Dale | Harmon | CTS |  |
|  | Jonathan | Hebben | Avcorp Composite Fabrication |  |
|  | Bill | Heeter | Skills Inc. |  |
|  | Ronald | Hendriks | Chemetall |  |
|  | Fabienne | Heron | SherwinBabbCo |  |
|  | Thomas | Kastranek | Otto Fuchs KG |  |
|  | Alexander | Klyuch | Blades Technology Ltd |  |
|  | Richard | Knibb | Doncasters Chard |  |
|  | Simon | Krauer | Franke Industrie AG |  |
|  | Martin | Lapierre | Ellison Surface Technologies Canada |  |
|  | Beth | Lewis | Wyman Gordon |  |
|  | Stuart | Mellor | Wyman Gordon Ltd. |  |
|  | Jeremy | Needs | Ultra Electronics |  |
|  | Ken | Nelson | Continental Heat Treating |  |
|  | Mitch | Nelson | Bodycote |  |
|  | Ian | Palethorpe | Meggitt polymers and composites |  |
|  | Tony | Parfitt | Doncasters Chard |  |
|  | Steve | Payne | Praxair Surface Technologies |  |
|  | Martyn | Perks | Tods Aerospace (Trading as AGC Aerocomposites) |  |
|  | Manfred | Podlech | IMP |  |
|  | Robin | Proudfoot | Ross & Catherall |  |
|  | Paulina | Sandoval | Centro de Investigación en Materiales Avanzados |  |
| \* | Mike | Schleckman | VOSS INDUSTRIES, LLC |  |
| \* | Tammi | Schubert | Helicomb Intl. Inc. |  |
|  | Jeffrey | Sipf | Haynes International, Inc. |  |
|  | Caroline | Sorel | SYPAC |  |
|  | Bernd | Spelsberg | Otto Fuchs KG |  |
|  | Kumara | Subramanian | Tii Techno Testing Services Pvt Ltd |  |
| \* | Vern | Talmadge | Alcoa-Howmet Thermatech Coatings |  |
| \* | Arno | Toelkes | Euro-Composites | Proxy for Vitorio Stana |
|  | Jeffrey | Tomczak | Techmetals |  |
|  | Francesc | Tort Santacana | Instron |  |
|  | James | Trainer | PPG Aerospace |  |
|  | Junji | Tsuji | IHI Corporation |  |
|  | Erkan | Ünsal | TAI / TUSAS |  |
|  | Lorenz | Vinke | Almecon Technologie GmbH |  |
|  | Jerry | Wahlin | AAA Plating & Inspection, Inc. |  |
| \* | Wilfried | Weber | PFW Aerospace GmbH |  |
| \* | Gary | White | Orbit Industries, Inc. |  |
|  | Samantha | Withers | Exova |  |
|  | Helen | Young | Timet UK Ltd |  |

***PRI Staff Present***

|  |  |
| --- | --- |
| Ethan | Akins |
| Jerry | Aston |
| Mark | Aubele |
| Mark | Burval |
| Karen | Conroy |
| Nigel | Cook |
| Marcel | Cuperman |
| Susan | Frailey |
| Hannah | Godfrey |
| Michael | Gutridge |
| Connie | Hess |
| Rob | Hoeth |
| Gabe | Kustra |
| Stéphanie | Labourdique |
| Jim | Lewis |
| Bob | Lizewski |
| David | Marcyjanik |
| Julia | Markardt |
| Carol | Martin |
| Christine | Nesbitt |
| Kellie | O'Connor |
| Joseph | Pinto |
| Keith | Purnell |
| Justin | Rausch |
| Glenn | Shultz |
| Ian | Simpson |
| Andy | Statham |
| Louise | Stefanakis |
| Elizabeth | Strano |
| John | Tibma |
| Kevin | Wetzel |

## The Conflict of Interest, Code of Ethics and Antitrust policies were reviewed.

## Approval of Previous Meeting Minutes

Motion made by David Soong and seconded by Russ Cole to approve the minutes from the previous meeting. Motion passed, and the minutes from the February 2016 NMC Meeting were approved as written.

# PRI BOARD OF DIRECTORS CHAIRPERSON ADDRESS

Chairman of the PRI Board of Directors, Michael Hayward, gave an overview of PRI and the Board’s current activities. For more details, please see the attached presentation.



# AWARDS & ANNOUNCEMENts

## The following appreciation awards were presented:

* For presenting at the 2015 & 2016 Nadcap Supplier Symposia:
  + Jim Dodge – Selfridge Plating
  + Ed Englehard – Solar Atmospheres
  + Stephane Chaumeil – Galion
  + Iain Mackenzie – Bodycote
  + Jim Cummings – Metal Finishing Company
  + Jonathan Hebben – Avcorp Composite Fabrication
* For contribution and work on the NMC:
  + Angela Vitale – Finmeccanica S.p.A. – Aeronautics Sector
  + Masahiro Kawamoto – Mitsubishi Heavy Industries
* For contribution and work on the Nondestructive Testing (NDT) Task Group
  + Peter Torelli – The Boeing Company
* For contribution and work on the Elastomer Seals (SEAL) and Sealants (SLT) Task Groups
  + Estrella Watson – UTC Aerospace (Goodrich)
* For contribution and long-time work on the Composites (COMP) / Non Metallic Materials Manufacturing (NMMM) / Non Metallic Materials Testing (NMMT) Task Group
  + Keith Panuska – Lockheed Martin Corp.
* For leading the sub-team in development of the Additive Manufacturing Checklist
  + Dr. Richard Freeman – TWI Ltd.
* In recognition of service as Chairperson:
  + Keith Panuska (Lockheed Martin Corp.) – COMP / NMMM / NMMT

## The following new Task Group Chairs were announced:

* Aerospace Quality Systems (AQS): Scott O’Connor, Honeywell Aerospace
* COMP / NMMM / NMMT: Tara Campbell, Rolls-Royce
* Measurement & Inspection (M&I): Al Berger, GE Aviation

# PRI/Nadcap status reporT

Scott Klavon presented the Nadcap Status report. For more details please see the attached presentation.



# NMC CHAIRPERSONS’ REPORT

Jeff Lott reported on Nadcap’s current activities. For more details, please see the attached presentation.



# Committee Reports

## Metrics

David Soong gave an update on the Metrics Committee activities. Please see the attached presentation for more details.



## Standardization

Frank McManus gave an update on the Standardization Committee activities. Please see the attached presentation for more details.



## Ethics & Appeals

Scott Maitland gave an update on the Ethics & Appeals Committee activities. Please see the attached presentation for more details.



## Oversight

Scott Porterfield gave an update on the Oversight Committee activities. Please see the attached presentation for more details.



## Globalization & Strategy

Jeff Lott gave an update on the Globalization & Strategy Committee activities. Please see the attached presentation for more details.



# TASK GROUP REPORTS

The Task Group Chairpersons reported out what their commodities are currently working on. For more details on each Task Group report, please see the attached presentations.



# SUpplier support committee

Dale Harmon gave an update on SSC’s activities. For more details, please see the attached presentation.



# new business

## Next Nadcap Meeting

## The next meeting will be held October 24-27, 2016, in Pittsburgh, Pennsylvania, USA at the Omni William Penn Hotel.

Hotel reservation information can be found on the PRI Website at <http://p-r-i.org/nadcap-meeting-in-pittsburgh-pa-usa-24-28-october-2016/>.

Attendees may pre-register online for the October 2016 meeting to save time and avoid registering the day of the meeting. Alternatively, attendees may register in person by visiting the Nadcap Registration Desk at the Omni William Penn Hotel beginning Monday, 24-Oct-2016. The online meeting registration is: <http://events.constantcontact.com/register/event?llr=t4cxmocab&oeidk=a07ecv0b1ma6487dbf2>.

ADJOURNMENT – 23-Jun-2016 – Meeting was adjourned at 11:00 a.m.

Minutes Prepared by: Kellie O’Connor, [koconnor@p-r-i.org](mailto:koconnor@p-r-i.org)

|  |  |  |
| --- | --- | --- |
| \*\*\*\*\* For PRI Staff use only: \*\*\*\*\*\*  Are procedural/form changes required based on changes/actions approved during this meeting? (select one)  YES\*  NO  \*If yes, the following information is required: | | |
| Documents requiring revision: | Who is responsible: | Due date: |
|  |  |  |