

**SNANDTB**

Singapore National Aerospace  
NDT Board (SNANDTB)

**06 Nov 2017**

Presented by:

Grace Liang (Chair-person)

# Background

- Part of CAAS' efforts to enhance its regulatory requirements for qualifying and certifying NDT personnel.
- CAAS to adopt EN4179/NAS410 standards in lieu of existing Chapter 6.6 of the SAR.
- EN4179/NAS410 recommends a national NDT board for supervision and control of qualification and certification activities.



# Composition of **SNANDTB**

- Following an industry consultation, SNANDTB was formed on 08 Aug 2017 with 11 main board members from SIAEC, ST Aerospace, Rolls Royce, Pratt & Whitney, GE, Honeywell, Safran, Airbus and SAESL.
- The Board shall consist of minimum of 10 Members (inclusive of Chairperson and Vice Chairperson).
- At least 70% of the Board's Members shall hold NDT Level 3 qualification.
- Members of The Board will have voting rights at the Board meetings.



# SNANDTB

- Term of appointment: 2 years

SNANDTB Members			
	Name	Company	
1	Grace Liang	SIA Engineering Company Ltd	Chairperson
2	Tay Hang Chua	SAESL	Vice Chair
3	Steven Crummack	TESTIA	Member
4	Sriram Parasuram	Pratt & Whitney	Member
5	Ratnavelu Sopalanivelu	GE Aviation	Member
6	Steven Lee`	Honeywell Aerospace Singapore Pte Ltd	Member
7	Joshua K. Vanu	ST Aerospace Engineering Pte Ltd	Member
8	Jason Lim	ST Aerospace Services Company Pte Ltd	Member
9	Heinrich Lim	Rolls Royce	Member
10	Chu Pao Hua	SAFRAN Landing Gear Systems Pte Ltd	Member
11	Dickson Tan	Pratt & Whitney Canada (SEA) Pte Ltd	Member

# SNANDTB

- Co-opted members

SNANDTB Members			
	Name	Company	
1	Charlie Toh	G-Mech Services Pte Ltd	
2	Sze Thiam Siong	SETSCO	
3	Geoff Brett	South West School of NDT	

- Provide technical expertise to complement the Board.
- No voting rights.

# SNANDTB

- Observer

SNANDTB Members		
	Name	Company
1	Wong Chew Wah	CAAS
2.	S.K. Babu	NDTSS

- Civil aviation safety regulator, non-profit organisations.
- No voting rights.

# SNANDTB

## Constitution and terms of reference

- **Satisfy CAAS' requirement** for a National Aerospace NDT Board as defined in EN 4179 and also EASA 145
- Act as **custodians** for matters related to **employer based personnel training and certification** and provide a **system for recognition** of these organisations.
- Provide a **system for assessing** organizations for compliance with a **company written practice**.

# Roles of **SN~~A~~NDTB**

As organisation responsible for control and supervision of the qualification and certification programme:

- Develop procedures for the control of examination bodies (AQB, IA, OA)
- Supervise NDTSS' audits / assessment on examination bodies, and jointly issue Certificate of Authorisation / Approval to these examination bodies
- Jointly issue examination results and / or examination certificates
- Support CAAS on their development of policy and requirement related to NDT personnel certification



# Roles of **SNANDTB**

Promotion and recognition of SNANDTB Examination Bodies:

- Membership & participate in European Forum, ANDTBF
- Participate in aerospace NDT forums
- Harmonise implementation of EN 4179 / NAS 410 at ANDTBF level
- Seek and maintain mutual recognition - with SNANDTB examination bodies recognized by European NANDTBs and vice versa
- Seek and maintain EASA recognition of qualification and certification controlled by SNANDTB

# Roles of **SNANDTB**

To support Singapore's Aerospace Sector NDT by:

- Provide examination services via SNANDTB/NDTSS's approved and authorized examination bodies
- Harmonise implementation of EN 4179 / NAS 410
- Develop qualification & certification requirements for emerging methods and techniques
- Support professional register for Aerospace NDT Personnel Certification
- Develop procedures for the industry when necessary
- Maintains a web-base platform on procedures

# Operations of **SNANDTB**

- Membership recommended
- Board meeting at least 2 times a year
- Communicate via e-mail
- Funds from audits
- NDTSS provides secretariat and administrative support

# AMO's Participation

- Join SNANDTB as a Corporate Member – initial \$300 and annual \$100
- Volunteer L3s as NDTSS' auditors
- Provide parts for practical examinations.
- Provide funds or support in kind.

# Target Dates

- **Technical Committee Creation Target – Aug 2017-Completed**
- **Technical Committee 1<sup>st</sup> Meeting– Dec 2017**
- **Board’s approval of Technical Committee’s documents Target – Jan 2018 ( E approval)**
- **OA, Applications, Audit, Recommendation Target – Jan 2018**
- **OA/Approval– Jan/Feb 2018**
- **Board Annual meeting– Jul 2018**
- **NDTSS Management Meeting – Jan 2018**
- **Exams to be delivered - Mar 2018 onwards**
- **SAC Audit - Feb 2018 –March 2018**
- **Board Annual Meeting and voting of 2<sup>nd</sup> Board– Jul 2019**

Thank You