

UK National Aerospace **NDT** Board

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THE 63rd MEETING OF THE UK NATIONAL AEROSPACE NDT BOARD

Meeting Date: Thursday 5th July 2018
Time: 10.00am
Location: Flybe, Exeter

Minutes

NANDTB/2018/M2

1. Confirmation of the agenda (and any other business)

1.1 Eye test - PCN/BINDT added greyscale - is this something that now has to be done?

DG stated that this is colours within the method so if someone is doing VT they shouldn't be doing grey scale anyway, RB stated that he would just do what he is currently doing.

1.2 MC stated that perhaps under number 5 could add – discussion whether the specific theory exam has become too narrow;

1.3 Validity of the general theory paper if taken separate to the specific theory and practical part of the exams for qualification, there is nothing written anywhere and there is an unwritten rule that it can be valid for 12 months in mirror of the 9712 system, however there is nothing to state this.

NB confirmed that it was actually 2 years under 9712.

2. Attendance & apologies for absence (Annex A)

Refer to attached.

TG went through the apologies.

KP welcomed Paul Harris (alternate for BA) and John Brand (alternate Safran (PT 145) as new alternates to the Board. The members introduced themselves.

3. Notes of the 62nd meeting (distributed earlier)

a. Confirmation

The minutes were confirmed and will be uploaded to the website as confirmed minutes.

Action 12/2018 – TG to upload minutes from 62nd meeting

b. Review of allocated actions

Ref	Actions brought forward	Remarks
10/2017	BF/NC to email individuals requesting this information for L2/L3 personnel (GR23)	AMENDED - Ongoing – NC stated that initially the Board were probably expecting to see a document with proposed changes, however this has fallen by the wayside. NC is not sure of the status of this document, however NC will now take over this from BF. TB is now back so NC will speak to him regarding this.
27/2017	AMENDED WG to agree criteria to manage OA's consisting of MC, RB, JB, NC, NLB and PJB, with MC being the lead on this WG	Ongoing – WG needs to meet even if by Webex, however commitment is needed, PJB suggested that there needs to be auditor input.
29/2017	JB to circulate the NADCAP advisory regarding this	CLOSED
39/2017	NANDTB WG in Jan, RD (Chair) AW, PB, MC/DG - checklist	CLOSED
43/2017	JB to write article for NDT News	Ongoing – KP to chase JB
44/2017	JB to draft an advisory covering this	Ongoing – KP to chase JB
01/2018	TG to upload minutes from 61 st meeting	CLOSED
02/2018	TG to upload the new version of the document – NANDTB_06	CLOSED
03/2018	CD to provide a letter of nomination for the Pt 145 representative	CLOSED
04/2018	TG to upload the new version of the document – NANDTB_25	CLOSED
05/2018	TG to upload the new version of the document – NANDTB_27	CLOSED
06/2018	TG to circulate the checklist/NANDTB_12 with the minutes	CLOSED
07/2018	TG to liaise with Tara Ashton about informing JD of the audit details etc	CLOSED
08/2018	TG would liaise with Tara Ashton about this	CLOSED
09/2018	PJB to provide Anne Briggs details of KP	CLOSED
10/2018	TG to circulate this Auditor Advisory to the Board members	CLOSED
11/2018	JB will email KP the flow chart he has that will	CLOSED

KP confirmed that his job role has now changed. He is going to move in to the R&D area, he has been given a new job title of Lead Engineer for Product Verification, PB will now be taking on the role of everything that KP did. Under his new role, KP confirmed that he may be able to deal with terahertz under this new role – Action 09/2018 above.

Action 13/2018 – TG to get the website update with KP's details

4. Membership

a. Verbal nominations

Cannot be accepted, a letter needs to be provided to the secretariat.

b. Review NANDTB_06

This document was amended in real time.

SW confirmed that he would be leaving Leonardo Helicopters at the end of May 2019 and standing down as the RL3 in September this year. His replacement will sit on the Board and his proposal is he will bring his replacement to the December meeting at SWS.

KP asked new members that if they have not done so, please could they provide TG with nomination letters, it was noted that KP was out of date.

Action 14/2018 – TG to upload the new version of the document

Action 15/2018 – KP to provide TG with new nomination letter

5. UK NANDTB Document Review

a. NANDTB_16 – Clarification on signature requirements for OA issued certificates - (MC)

The wording on NANDTB_16 requires the examiner to sign the certificates, the practice is that the examiner will sign the certificates or nominate a party from the OA/IA as detailed by the QMS. The RL3 could sign off the certificates following review.

The primes confirmed that they did not have a problem who signs it off, as long as it is documented and someone in a senior position has final sign off.

MC suggested that wording goes in the appendix at the bottom of the document. MC will put some wording together.

It was agreed in principle that MC would put some wording together to then circulate.

Action 16/2018 – MC will look at NANDTB_16 and draft some wording and will circulate via email to the Board to approve

b. NANDTB_17 – GL PP

GL going through his presentation.

This presentation was discussed in great detail, the points that were put forward by GL, he was going to incorporate in to the new NANDTB_17 document.

The proposals for what was going to go in :-

1. Emphasise development: L2 Ltd is a 'stepping stone' to full L2
2. Emphasise benefits of productive work whilst gaining experience (offsets the

3. Extend to all methods recognised under EN4179, plus emerging methods
4. Limit to a single technique within each method
5. Allow individuals to hold L2 Ltds across multiple methods eg UT(Pulse Echo) + ET(Static) + ST(Vacuum)
6. On the basis that a qualified L2 Ltd is comparable in every way with a qualified full L2 operating within the same technique boundaries:
 - a. Remove restriction of 'a' component part
 - b. Remove restriction on 'more interpretation'
 - c. Allow accept/reject and RTS
 - d. Allow supervision/guidance of L1
 - e. Allow WI development

... within the technique.

KP thanked GL for the full review of this document and the action is then for the WG to get together before the September meeting and get a draft version of NANDTB_17.

c. Specific Theory paper - becoming too easy

MC stated that it has become apparent that specific theory papers are too easy.

MC confirmed that now there is the outline document from EFNDT on the L3, this doesn't include any product technology.

It was noted that product technology is covered fully in the basic for the L3, MC stated that only if defined by the requesting party. This is not in the mandatory requirements for the basic. MC thinks there is a problem developing as there are L3s who do not have product technology in their general theory exams.

After discussion, it was noted that nobody can become a L3 without becoming a L2 first, where they will have covered product technology.

After discussion it was noted that product technology is given as part of the specific exam because it is part of the specific exam.

It was noted that 7.1.3 specific needs to align with 7.3.3.0 – KP stated that he would inform Chris Stevenson of this.

d. General theory

General theory if taken separately, how long is this valid for?

Some people stated that 12 months is acceptable, for PCN it is 2 years but does it need to be documented somewhere. Once the general theory is taken, it is never taken again and doesn't expire.

The Board confirmed it is indefinite and the rest of it is down to the RL3.

6. Qualifying Agencies

a. Auditor Oversight, review matrix

TG tabled the matrix – it was noted that Karen Reader and Clive Hammond are being witnessed, Alan Parsons is not, however come later this year and his role will be changing so he will not be auditing.

7. Standard Review

a. AIA NAS410 sub team (JD)

JD reported that he went to the last AIA sub-committee meeting to present the competency based framework. The way they are going about changing NAS410 is very much their way but they have some very definitive wording, the UKs list of proposed changes is more of what is not liked. There was a call to join this group and also to the ANDTBF group to join, JD stated he had not seen anything about this. KP suggested JD speak to Chris Stevenson.

Few standards that are changing :-

Guide to NDT of additive parts – on its 15th draft, going to ballot

Few changes to SDNs – LED UV lamps.

Harmonisation – the US are determined to go down the December 2019 revision date but it may be Q1/Q2 or 2020.

b. Proposed changes for next issue for NAS410

They want to take thermography and shearography out of the common methods to go under emerging.

Few typos in the document to be amended.

L1 Limited they want to extract from the main body of the standard, also there is a big drive to reduce what is in the standard. They are looking to remove stuff to reduce it down.

There was also a proposal to introduce a requirement for L3 training to include materials, product knowledge and leadership – this was rejected.

This standard is derived from Standard 410 and the military have a big say of what goes in to this standard and as a power they are careful that they don't upset the military NDT people and what they do. They want the standard to be able to recognise military NDT service.

Instructors to be designated by the RL3 or examiner, not just the RL3.

Vision screening devices to be used.

L1 Limited specific exams, it states that a minimum of 8 questions shall be administered for specific to include product technology.

On the credit system for a L3 – continuity in a method shall be demonstrated, the candidate shall provide verifiable L3 tasks in each NDT method for which recertification is sought, it currently states covering the 5 year period but would like it amending to during/within a 5 year period

You can ask for clarification on the standard through ANDTBF_10, this has been stopped in the USA now. It is up to the RL3 to clarify what they think the standard states.

JD's competency based training presentation was presented at ANDTBF group and this was acceptable. JD has put some wording together for approval.

Action 17/2018 - JD will recirculate the wording

8. ANDTBF (JB)

KP reported that JB has confirmed that he will be stepping down as Chair.

Discussions about Boards getting approved on the same lines as the UK Board and the PRI and the AC7714/11 checklist. Independent auditor was also discussed. Not all Boards have carried out the self-audit against ANDTBF_10. Regarding E4179 changes, a lot of Boards have submitted these through Chris Stevenson.

Next meeting November in Dublin.

9. Part 145 Orgs and SIG's – Input (GMc)

GMcC was not present and nothing had been sent through prior to the meeting.

10. Regulators Update – (BF/NC)

Not a lot to report. Discussions have been taking place regarding Brexit and the CAAs position is currently on their website. Trying to arrange a bilateral agreement between EASA and the CAA. There is a lot going on behind the scenes at the moment.

There are currently a number of Pt 145 organisations that sit outside Europe and EASAs approach to these organisations, they create user guide documents because EASA are small team and contract oversight work to other companies in Europe. EASA publish user guides to all the other NAAs to standardise the oversight, there is currently a user guide for NDT being worked on.

The MAA have nothing to report.

11. OA/IA Group (MC)

. No meeting since last Board meeting. Currently waiting on how the new checklist works.

12. Any other business

a. Fee for PRI audit

In Madrid in February it was agreed that Boards would be accredited by an independent industry controlled scheme. PRI Nadcap was accepted as the proposed industry scheme. The NDT task group took the ANDTBF_10 for establishing their own Aerospace Board checklist which is then adopted as the AC7114-11. This is a voted document.

In order to maintain the approval for the UK NANDTB an audit by PRI using the AC7114-11 checklist will be required, every 3 years. This will be a one day audit with associated costs. Approximate costs are £2,500. The UK NANDTB has a temporary approval for 12 months, in February 2019, another audit will be due.

The Board will accept BINDT's offer to pay for the first audit and this will then be divided by the number of voting members, to fund the audits going forward. KP will draft a letter

A T&C document can be put together and NLB stated that she would need to speak to the accounts department.

Action 18/2018 – KP to draft a letter to regarding the payment going forward of the audit costs

b. Irish Board

DG stated that there is a company operating in the UK that cannot meet the requirements of an OA to the UK NANDTB. This company have been approved by the Irish Board. Is there anything the Board would like to do about this?

A discussion took place regarding this.

c. MAPOD (model assisted probability of detection)

Update from the Aerospace Forum. The industry is looking at virtual simulation and the use of models, the Aerospace group at looking at publishing a document in terms of best practice and guidance to help reduce costs. If any primes are interested then come along to the meetings at BINDT.

d. PCN Eye Test/Greyscales

Discussion taking place regarding Ishihara test and grey scale test. Is the Ishihara actually adding value to anything?

13. Date and location of the next meeting

18th September – Bombardier - Belfast

11th December – SWS - Cardiff

FOR APPROVAL AT NEXT MEETING

Actions allocated and carried over from meeting 63rd Meeting

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13/2018	TG to get the website update with KP's details	COMPLETE
14/2018	TG to upload the new version of the document – NANDTB_06	
15/2018	KP to provide TG with new nomination letter	COMPLETE
16/2018	MC will look at NANDTB_16 and draft some wording and will circulate via email to the Board to approve	
17/2018	JD will recirculate the wording	
18/2018	KP to draft a letter to regarding the payment going forward of the audit costs	

Annex A – attendance and apologies for absence at the 5 July 2018 NANDTB meeting no. 63

Name (member unless stated otherwise)	Representing	In attendance	Apologies for absence
Alun Williams + John Iley	Airbus UK	1	
Ben Forshaw (Observer)	CAA replacing TB		
Chris Durrant	Safran Landing Systems Ltd		1
Clive Worrall	British Airways	1	
Dave Griffin (Co-opted)	Vice Chair representing BINDT OA/IA Group	1	
Guy Lawton	MoD	1	
Graham Mcleod	Honeywell		1
Graham McCully (Co-opted)	Pt. 145 Orgs and SIG members		1
Jes Dugard	MoD	1	
John Brand	Safran Landing Systems Ltd (Pt 145)	1	
Jon Biddulph (Chair)	Rolls Royce		1
Kevin Pickup	BAE Systems	1	
Michelle Clapham (Co-opted)	Chair representing BINDT OA/IA Group	1	
(Robert) Neal Cuddy (Observer)	CAA replacing TB	1	
Nicole Banks (Observer)	BINDT	1	
Patrick Boulton (Voting member)	BINDT	1	
Paul Harris	British Airways	1	
Phil Byram	BAE Systems	1	
Ralph Duff	Bombardier	1	
Rob Bright	Flybe	1	
Steven Arrowsmith (Observer)	MAA	1	
Stuart Wroot	Leonardo Helicopters	1	
Tracy Grant (Secretary)	BINDT	1	
	Totals	19	4