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CONFIRMED NOTES OF THE 51st MEETING OF THE UK NATIONAL AEROSPACE NDT BOARD

Meeting Date: Friday 19th June 2015, 10:00

Location: Flybe, Jack Walker House, Exeter International Airport, Exeter, EX5 2HL

NANDTB/2015/M2

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

J Biddulph (Chair) welcomed all to the meeting.

There were a few people who arrived late for the meeting, J Biddulph confirmed that he would do a table introduction when they turned up.

2. Attendance & apologies for absence (Annex A)

Refer to attached attendance sheet.

3. Notes of the 50th meeting (distributed earlier)

a. Confirmation

J Biddulph noted that there was a discussion in the previous minutes that was not fully completed. Unfortunately nobody could fill in the blanks, it was agreed that the minutes would be approved subject to clarification from Jes Dugard and Mandy Cox as to what the missing word was. The Board agreed to this.

b. Review of allocated actions below with special mention to the following;

Ref	Actions brought forward	Remarks
06/2013	C Worrall (LEAD), G McCully, C Thomas, T Blacklay, S Algar to review NANDTB-18. Comments to be submitted to J Cook by close of business 5th April 2013 for implementation with approval at the next meeting.	ON HOLD NLS confirmed that the WG need to review this now that prEN4179 has been published. The original team nominated are to now review.
24/2013	All members to send suggestions to K Phillips for collation, on 'what the UK NANDTB wants the forum to achieve'. Suggestions to be put to T Blacklay at a meeting between UK NANDTB and CAA at Aviation House TBC. (action re-allocated to KP from JB)	CLOSED – Agreed not to proceed
39/2013	T Blacklay to formally correspond with Primes' employers advising why it is important that members of UK NANDTB attend and witness audits of Aerospace agencies/training & examination centres.	CLOSED – A letter was drafted, it went to John McColl from the CAA who is going to contact the representatives from each Prime personally to encourage attendance of their representative and to support the activities of the Board.
02/2014 Amended	N Scutt to circulate the BINDT auditor training criteria	OVERDUE – NLS confirmed that she would have something to table at the next meeting.
16/2014	NANDTB_15 – review by; C Dootson and A Williams	ONGOING – On agenda
21/2014	J Biddulph and N Scutt to co-ordinate expediting the transfer of ANDTBF information and documentation to be included on BINDT website	CLOSED

23/2014	J Biddulph to create an advisory and organisation chart showing the Board has signed up to ANDTBF_08 recognition of approvals and removing the overseas affiliations process.	OVERDUE – On agenda
25/2014	NANDTB_21 to be redrafted by the Affiliation WG Including AD008, TB to write a letter to EASA informing them of the Boards position.	ONGOING – On agenda
28/2014	JB, TB, KP to review NANDTB 04 - TOR	CLOSED
41/2014	J Dugard, M Cox, J Biddulph and T Blacklay to look at NANDTB_23	CLOSED – See Action 09/2015
44/2014	TG to issue IA checklist as OAQS8 if no comments received.	CLOSED
56/2014	TG to resend document to all members	CLOSED
57/2014	TB to revise the draft and SA will take out comments back to TB	CLOSED
58/2014	OA/IA Group to review the following NANDTB documents, NANDTB_10, 12, 14, 16, 19, 22, 25 & AD007	CLOSED
60/2014	BS to provide CT with the AIA document	CLOSED
01/2015	CD to recirculate these documents	ONGOING – On agenda
02/2015	JB and GMcC to review NANDTB_10	ONGOING – On agenda
03/2015	JB, GMcC and CT to review NANDTB_12	CLOSED
04/2015	CD and KPU to amend NANDTB_19 in accordance with comments received	CLOSED – See Action 23/2015
05/2015	DG to contact Andy Bakewell regarding the updated on ISO 18490	ONGOING – On agenda
06/2015	JB to send pp to DG and to CT as he has amended Rolls Royce version	CLOSED
07/2015	JB to incorporate put the advisory AD007 at the beginning of NANDTB_16	ONGOING – On agenda
08/2015	JB to put something on the website re NANDTB_21 being withdrawn	ONGOING – On agenda
09/2015	JB, MC and JD to re-draft NANDTB_23 to include certification and re-certification	ONGOING – On agenda
10/2015	JB to draft something to go on the website to advise where they can buy PREN4179 from	ONGOING – On agenda
11/2015	NLS to email JB's article regarding NAS410 to the all the OA/IA agencies and get this put on the website under the NANDTB page	CLOSED
12/2015	JB to confirm that NANDTB_12 is under review	CLOSED
13/2015	JB, GMcC and CT are to review NANDTB_12 and provide more clarity regarding specific training	CLOSED – New Action 16/2015 – OA/IA to look at NANDTB_12
14/2015	OA/IA to look at this and stated that it must be under control unless GR23 is revised	ONGOING – On agenda
15/2015	NLS to send round the PCN L3 marking guide and send it back to CT with comments	CLOSED – this was distributed 19/06/2015

c. Other matters arising (not covered by the agenda)

No other matters arising.

4. Membership (current list)

a. To note status and confirm contact details

Ralph Duff is standing in for Bobby Scott at this meeting, he was also added to the Member List as the Bombardier representative.

The member list NANDTB_06 was amended in real time.

J Biddulph then presented K Phillips with a certificate of recognition on behalf of the board as this was his last meeting.

b. Application for membership – Aircelle Ltd

TG tabled the letter that the Board had received from Aircelle Ltd nominating their level 3 to become a member of the Board. A discussion took place regarding the request regarding the prime contractor/design authority status of Aircelle Ltd.

The Board was of the opinion that Aircelle Ltd is not a design authority and therefore do not meet the applicable criteria. Clarification to be sought, if Aircelle Ltd is not a design authority they cannot become a member.

Action 17/2015 – JB to write back to Aircelle Ltd and request clarification

5. Documents for discussion and/or approval

a. NANDTB_09 – (Chris Dootson & Alun Williams)

JB asked if everybody had seen draft NANDTB_09 which had been circulated. JB stated that it also incorporated the content of NANDTB_15 which was about the same subject. The document was tabled, discussed and amended in real time.

Action 18/2015 – TG to publish NANDTB_09

Action 19/2015 – TG to send this document to DG, CT and GMcC to sign as co-opted representatives

b. NANDTB_10 - JB

A lengthy discussion took place with regard to clause 7.1.3 and 7.1.4 in prEN 4179 and supplemental examinations and whether this clause applied to L2 & L3.

RB & CW stated that in the MOR, where do you draw the line at where you stop needing supplementary examinations? It was noted that in that industry the operators would be constantly taking examinations.

CW stated that it is putting an extra burden on industry to introduce supplemental exams when PCN Aero, which has a wider scope already meets the criteria. Where it is saying must administer, we are doing training (Boeing Phased Array/UT Composite Bond course), is training such as this not sufficient?

TB stated that it is down to each organisation's L3 to complete a gap analysis and assure that the individuals doing the job are competent, as GMcC stated, you can do an assessment and assess the competency and have some examination to verify personnel can interpret the work instruction or the specification. RB stated that under 145 you have to carry out a yearly assessment or everybody and it was asked if this would meet the requirements? JB stated that this would not as it is just competency, it is not certification under EN4179.

RB stated that Boeing or Airbus requirements are the spec. If we have a group within NANDTB who could write a series of questions at L2 or L3 based upon these specs, these are reviewed by the Board and these are the questions you administer as the supplemental exam at an AQB, would this satisfy the requirements?

JB explained that at the Forum meeting in Seville, he went around the table to see what Boards were doing in their countries. He asked if their exams were wide or employer specific. The UK was the only country who claimed their exams were employer specific as personnel mostly used OA's, the exception was where PCN Aero was used. The other question posed was if the exams are wide in scope and not employer specific, who will administer the supplemental exams? In each case the answer was the RL3. If the supplemental exams are not under the control of the Board then this creates other problems. If you don't use an outside agency, who will administer the training and the examinations?

RB stated that the defining factor was that in the morning you could be working on a fuselage, come lunchtime you could be doing radiography on something and during the evening you could be doing ultrasonic inspection on a landing gear component, so where do you draw the line with regard to capturing this? The system described works exceptionally well for the Primes but unfortunately it is not a one size fits all. There are lots of anomalies that these guys are dealing with on a daily basis.

PCN Aero in its wider generic scope is acceptable per GR23. JB explained that GR23 does accept this subject to any additional formal training and examinations as determined by the RL3.

PCN Aero is based on a document which is specific to individuals testing aircraft structures and that is still what it is for. Per EN4179, where a wider scope exam is recognised by a NANDTB the employer must administer supplemental specific and practical examinations.

JB confirmed that any new techniques introduced by the employer or is new to an individual must be added to the individuals approval scope and requires additional training/examination.

TB stated that part 145 organisations work to a wider scope. Is PCN Aero wider scope? Potentially PCN Gen was but is PCN Aero? The objective to having PCN Aero was you have the wider scope. Are specific exams appropriate for Aerospace? TG tabled the Z1 syllabus and guidance sheet?

TB stated that EASA are trying to control NDT more and that is what Rosa Tejas has been trying to do and that is because of the way the UK Board has been interacting with PCN. The CAA doesn't have any expertise assess any potential gap and it was asked that GMcC, CW and RB look and see where the gaps are and if they can be filled and work with BINDT to try and deal with this.

The Board does have an influence on input to the PCN Aero scheme via many routes and does have a watching brief over PCN Aero. If BINDT decided to change it radically GMcC will tell the authority and there will be a direct view. This influence has been used to assist BINDT in developing the examinations and moving PCN Aero closer to what is required.

RB asked JB what control he wanted over it. JB stated it is supposed to be general control. JB explained there were a whole lot of exam questions that were written by a third party, the Board reviewed them, the Board weren't really happy as they were general and not specific and in the end they were agreed as they were better than those in use. These questions were never implemented. The Board reviewed the questions for the online question bank but the contents had not changed.

NLS then asked what it was that we had not implemented. JB said that a long time ago when Alex Lambie was PCN Scheme Manager and UK NANDTB Secretary, the Board reviewed some new questions written by a third party. The questions that we reviewed were deemed better than what was in place and the Board agreed for BINDT to go and implement them. NLS confirmed that these questions have been added to the bank of Aerospace questions. NLS explained that more has been done with the PCN Aero questions than has been done with the OA/IA questions and that these are not checked one. As a Board the Board have never looked at the questions of the OA/IA. JB said they haven't but they get reviewed when audited. NLS confirmed that Karen does not read all the questions.

TB asked if a meeting could be scheduled between GMcC/CT. NLS confirmed that until the syllabus is done then the questions cannot be reviewed.

Action 20/2015 – GMcC, CT, RB, CW and BINDT to meet to review and align PCN Aero Specific Practical and PCN Aero Syllabus to comply with EN4179

NANDTB_15 – this document has now been withdrawn and the contents are now in NANDTB_09.

Action 21/2015 – TG to withdraw this document on the document list/state on website

NANDTB_16 – JB stated that there was an Advisory issued to advise what information should appear on certificates and this advisory was now incorporated into NANDTB_16. This document was approved and up-issued.

Action 22/2015 – TG to issue as Issue 6

NANDTB_19 – this document is still to be reviewed.

Action 23/2015 – CD and GMcC to review

NANDTB_21 – this document was amended in real time and approved.

Action 24/2015 – TG to issue

NANDTB_23 – this document was sent out for consideration, only CT commented on this. This was amended in real time and approved.

Action 25/2015 – TG to issue

NANDTB_24 – this document is used for the tumbling E. This has now been replaced by ISO18490.

DG stated that questions had been asked at the OA/IA meeting and it was whether the charts would still be available. DG spoke to Andy Bakewell and he had got no thoughts at the moment of taking this service away so it will still be available. The light level has changed to minimum 500 lux + 250 lux. These are the changed from NANDTB_24.

JB stated that this can now be withdrawn? DG stated that that we need to say something rather than withdraw as there is information that is needed. A discussion took place regarding whether withdrawing or it being superseded.

Action 26/2015 – JB to draft new rev of N24 and to liaise with Andy Bakewell

Action 27/2015 – TG to withdraw AD002

AD009 – this document has now been withdrawn.

Action 28/2015 – TG to withdraw this document on the document list/state on website

AD010 – this document was reviewed and approved.

Action 29/2015 – TG to issue

6. Qualifying Agencies

a. Oversight Matrix – update

TG tabled this. JB asked if any audits have been overseen this year and NLS confirmed which ones had or were due to be overseen. JB talking about re-formatting the table, however NLS explained that this will not work out.

JB asked how many auditors we have now and NLS explained we have 3 auditors, Karen Reader, John Thompson and Alan Parsons. JB stated that all the auditors should be overseen on one audit per year. NLS explaining what everything on the matrix is.

Action 30/2015 – TG to upload oversight matrix to the website

b. RCA for OA/IA audits

BS didn't attend the meeting however BS had asked JB if when there is a finding do the company need to go away and do root cause analysis and root cause corrective action. Is this something that BINDT can bring in to the audit process? PB confirmed that it is already in there and NLS confirmed this also.

c. New audit review team

JB confirmed that changing the audit review team is well overdue. The new audit review team was agreed as Keith Griffiths, Stuart Wroot, Chris Dootson and Chris Durrant.

7. prEN4179:2014

a. PCN/AERO and supplementary employer specific/practical exams – policy

This was dealt with under NAndtB_10

8. ANDTBF (JB)

a. 7th May 2015 meeting

JB confirmed that at the meeting one of items discussed was, whilst the requirements in EASA part 145 for EN4179 exams to be under the general control of a NANDTB, were other countries following the same regulation to organisations operating under Pt 21? Some countries had taken the same approach as the UK and were controlling examinations, some were in part and others were not. A policy was established by the Forum that the requirement for the general control of examinations as application to NDT personnel operating under Part 145 also applies to NDT personnel operating under Part 21. The Forum also agreed that NANDTB's should apply general control over formal NDT training for NDT personnel operating under Part 145 and Part 21. This aligns the Forum with the UK position.

prEN4179 was discussed and attendees were saying it is not available and it was not possible to get hold of a copy. JB confirmed that it could be purchased from ASD-STAN for around €135. JB sought from around the table, which countries had implemented prEN7179, who were proposing to introduce and who is not. JB shared the results of this. A policy was also set by the Forum that prEN4179:2014 be implemented by all members by 31 December 2015.

A lack of capability for digital x-ray at training organisations was discussed and perceived as a barrier to its introduction.

Supplemental and practical exams were discussed and JB read through the results of this.

Annual Maintenance was also discussed and JB explaining that he tabled the Rolls Royce template used, which was greatly received as a check sheet. There was an action given to devise a standardised method and form for administering this annual check.

The improved changes that had been made on the EFNDT website were shared.

JB explained about the NANDTB overviews that were given and that due to current economic and politically issue, the Greek NANDTB was not operational. Greece could therefore no longer be a voting member of the Forum but it was agreed that they could remain as an Observer member.

Cooperation between EASA and the Forum was also discussed. Rosa Tejas provided a list of expectations of the Forum but also wanted to know what the Forum's expectations of EASA were. There was no time to discuss this at the meeting but it was agreed that JB would circulate the email from Rosa to the Forum and try and draft a coordinated response back to EASA before the next meeting. TB explained that Carmen might be the better person to respond to.

JB also stated that AIA NDTSC have a handbook and they are mutually recognising the Aerospace Forum as a European version of themselves and the Forum is now included in their handbook. Also included in the handbook is the agreed process for dealing with clarification requests. The Forum needs its own procedure that does the same.

TB stated that he thought that the controlling body for EN4179 was ASD STAN and not the Forum. JB explained that it comes under D6_S3_WG1. This group is the EU harmonisation team and deals with the clarification process. There is a requirement for the Forum members to comply with ANDTBF_08.

The next meeting in October was proposed to be in Lisbon but was at risk so a Plan B was required. BINDT had stepped in and agreed to host the meeting at Telford and subsequently this will be the case.

b. EASA Airworthiness Standardisation meeting – 7th June 2015

JB was invited to attend the EASA Airworthiness Standardisation meeting and Carmen and JB gave presentations on NDT personnel qualification and certification. It was the first time that anybody from industry had been invited to attend. The presentation was on changes per the new standard and the roles/responsibility of the Forum. JB shared his hierarchy chart on how non EU NANDTB's could be recognised by EASA. Whilst not agreed, it was agreed as a goal.

9. Pt. 145 Orgs and SIG members Update - (GMc)

Nothing to report.

10. Regulators Update – (TB)

TB gave a brief update on GR23 and the amendments that were suggested by the Board, JB stated that the WG would help to review it again if that was of assistance to the CAA.

11. OA/IA Group

DG said that this meeting had already covered much of what he wanted to raise. DG mentioned the L3 practical marking sheet which has been made mandatory for use by all OA's/IA's. A question has been raised "what if there is a marking scheme within a written practice, does the written practice need to be amended to include the new NANDTB Marking scheme or do they use the one specified in the employers written practice?"

JB stated in his opinion if there is a marking guide within the employer's written practice then this is to be used if not the NANDTB issued one should be used.

There was also a query about the eyesight test which has been discussed.

GMcC had brought up the fact that the person who marks the exam must be L3 in that method and must witness the practical exam. DG said they went back and changed this and then told the Group that this was the case but CT then brought up that this also means that all practical exams have to be at the company's premises. There were some comments from the OAs saying there is no way EN4179 mandates that he has to be at that site, it just states comparable equipment and comparable exam samples. It is a cost implication more than anything. Customers have gone back to some OAs and stated they are not paying that extra cost as it is double the cost of the exam. Companies have therefore requested that if this is somewhere in writing for them to show customers that the Board says this has to be the case. This needs to be documented somewhere.

A discussion took place regarding this and it was agreed that as long as the equipment is sufficiently comparable to what the standard says then you can do examinations at OA training centres. It is up to the RL3 as to whether the equipment is comparable etc.

Action 31/2015 – DG to take this back to the OA/IA Group

12. Any other business

- a. Is an ASNT L3 certificate acceptable evidence of the general exam where DR techniques are applied?

The Board agrees that possession of an ASNT L3 Certificate does satisfy the general requirements for somebody certified in non-film techniques.

2. Date and location of the next meeting

52nd Meeting – NDT 54th Annual Conference, Telford

53rd Meeting – Wednesday 9th December – BA or BINDT offices

Annex A – attendance and apologies for absence at the 2015 NANDTB meeting no. 50

Name	Representing	In attendance	Apologies for absence
Alun Williams	(Airbus UK)	1	
Bobby Scott (Ralph Duff)	(Bombardier)	1	
Carl Sheppard	(British Airways)		1
Chris Dootson	(BAE Systems)		1
Chris Durrant	(Messier-Bugatti-Dowty)		1
Clive Worrall	(British Airways)	1	
Colin Thomas	(Training & Examination Group)		1
Dave Griffin	(Training & Examination Group Deputy)	1	
Jes Dugard	(MoD)		1
Graham Mcleod (GmC)	(Honeywell)	1	
Graham McCully (GMcC)	(Pt. 145 Orgs, QAs and SIG members)	1	
Jon Biddulph (Chair)	(Rolls Royce)	1	
Keith Griffiths	(Rolls Royce)	1	
Keith Phillips	(Airbus UK)	1	
Kevin Pickup	(BAE Systems)		1
Mandy Cox	MAA		1
Nicole Scutt	(BINDT)	Via Webex	
Patrick Boulton	(BINDT)	1	
Rob Bright	(Flybe)	1	
Stuart Algar	(Civil Aviation Authority)		1
Stuart Wroot	(Agusta Westland)	1	
Ted Blacklay	(Civil Aviation Authority)	1	
Tracy Grant (Secretary)	(BINDT)	Via Webex	
	Totals	15	8

Actions allocated and carried over from meeting 51st Meeting.

Ref	Actions brought forward	Remarks
06/2013	C Worrall (LEAD), G McCully, C Thomas, T Blacklay, S Algar to review NANDTB-18. Comments to be submitted to J Cook by close of business 5th April 2013 for implementation with approval at the next meeting.	New revision tabled and Approved TG to re-issue. NANDTB 18.
02/2014 Amended	N Scutt to circulate the BINDT auditor training criteria	Overdue
16/2014	NANDTB_15 – review by; C Dootson and A Williams	Closed
23/2014	J Biddulph to create an advisory and organisation chart showing the Board has signed up to ANDTBF_08 recognition of approvals and removing the overseas affiliations process.	Closed
25/2014	NANDTB_21 to be redrafted by the Affiliation WG Including AD008, TB to write a letter to EASA informing them of the Boards position.	Closed
01/2015	CD to recirculate these documents	Closed
02/2015	JB and GMcC to review NANDTB_10	Agenda Item
04/2015	CD and KPU to amend NANDTB_19 in accordance with comments received	See action – 23/2015
05/2015	DG to contact Andy Bakewell regarding the updated on ISO 18490	Closed
10/2015	JB to draft something to go on the website to advise where people can buy PREN4179 from	Closed
14/2015	OA/IA to look at this and stated that it must be under control of the examiner	NANDTB-12 to be revised to clarify.
NEW ACTION 16/2015	JB, GMcC and CT are to review NANDTB_12 and provide more clarity regarding specific training	Agenda Item
17/2015	JB to write back to Aircelle Ltd and request clarification	Closed
18/2015	TG to publish NANDTB_09	Closed
19/2015	TG to send NAndtB-09 to DG, CT and GMcC to sign as co-opted representatives	Closed
20/2015	GMcC, CT, RB, CW and BINDT to meet to review and align PCN Aero Specific Practical and PCN Aero Syllabus to comply with EN4179	Closed – Agenda item
21/2015	TG to withdraw NAndtB_15 on document list/state on website	Closed
22/2015	TG to issue NAndtB_16 as Issue 6	Closed
23/2015	CD and GMcC to review NAndtB_19	Ongoing
24/2015	TG to issue NAndtB_21	Closed
25/2015	TG to issue NAndtB_23	Closed
26/2015	JB to draft new rev of N24 and to liaise with Andy Bakewell	Ongoing – Agenda
Action 27/2015	TG to withdraw AD002	Closed

Action 28/2015	TG to withdraw AD009	Closed
Action 29/2015	TG to issue AD010	Closed
Action 30/2015	TG to upload oversight matrix to the website	Closed
Action 31/2015	DG to take back to the OA/IA Group L3 and comparable equipment etc	Ongoing – No meeting held.