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UNCONFIRMED NOTES OF THE 55th MEETING OF THE UK NATIONAL AEROSPACE NDT BOARD

Meeting Date: Tuesday 28th June 2016, 10:00

Location: IMECHE, Sheffield

NANDTB/2016/M2

1. JB wanted it minuted that he would like the Board to pay their respects to Chris Dootson who was a great colleague and friend to a lot of people from the Board. This was done with a minute's silence.
2. **Confirmation of the agenda (and any other business)**
 JB wanted control of etch inspection examinations to be added to AOB.
3. **Attendance & apologies for absence (Annex A)**
 For the benefit of Luke Talbot who was new to the meeting, there was a round table introduction. Refer to attached.
4. **Notes of the 54th meeting (distributed earlier)**
 - a. **Confirmation**
 The minutes were approved and will be uploaded.
 - b. **Review of allocated actions below with special mention to the following;**

Ref	Actions brought forward	Remarks
23/2015	CD and GMcC to review NAndtB_19	Closed
47/2015	NLS to go back to KR regarding a root cause analysis for AIT	Closed
51/2015	JB will write a statement to go on the front of the website	Closed - JB will look at drafting something for the home page. There is also a "What's New" part on the website however until there is something to go in this part, this section will not show. Action 15/2016 – NLS to speak to David Gilbert about looking at the NANDTB microsite.
55/2015	NANDTB_23 Power Point will be reviewed together by JB and JD	Closed - superseded by Action 09/2016
58/2015	JB to contact Testia, SWS and NDT Consultants to find out what their status is with regard to satellite centres	Agenda item

59/2015	DG will take the 3 scenarios regarding the satellite centres back to the OA/IA group along with the checklist which will need revising	Agenda item
60/2015	DG to take NANDTB_12 back to the OA/IA group to capture the requirements	Ongoing
65/2015	DG to go back to the OA/IA Group with regard to guidance for L1, L2 and L3 questions	Agenda item
66/2015	JB will create a spreadsheet with clarification clauses which could be suggested to be put in to the new draft standard	Closed TG tabled Excel spreadsheet that JB has created for to suggest for the next revision of EN4179. JB did state that at the forum meeting in Munich there was a lot of discussion regarding the L3 demonstrating knowledge of other methods. JB stated that after discussing the basic exam, this needs to be a minimum of 70 questions, needs to cover all 7 methods and a minimum of 5 questions per method. This was voted on and agreed at the forum meeting and a document will now be produced to reflect this and this will be implemented 6 months after EN4179 has been published.
67/2015	TB, JB, CS, MC, JT and CT to provisionally draft GR23	Ongoing
68/2015	TB will try and organise an agenda for this for the meeting to be held at CAA	Ongoing
01/2016	NLS stated that she would have to go back and check all the standards to check the requirements before anything is changed	Closed Clause 2.8.4.2 of CP08 has been amended to reflect the use of tutor/invigilator
02/2016	OA/IA will look in to the ATO requirement and depending on what this is, revise NANDTB_12	Ongoing
New Action 03/2016	Working Group to consider alternative methods of experience/competence	Ongoing – draft document to be shown at next meeting in September
04/2016	TB will review to the document to make sure that the scope was acceptable.	OAQS6
05/2016	NLS to send TB the excel scope	Closed
06/2016	TG to amend NANDTB_03, send it to JB for approval and then upload to the website when JB has approved	Closed
07/2016	GMcC to review the NANDTB_14 PP	Ongoing
08/2016	GMcC to review the NANDTB_19 PP	Ongoing
09/2016	JD and GMcC to review the NANDTB_23 PP	Ongoing
10/2016	TG to speak to Publishing Department about the Advisories that are missing off the website	Closed

11/2016	TG to email CDu to see if he is able to witness Alan at the International School of Aerospace NDT on 7/8 July	Agenda item
12/2016	NLS will also check to see whether Karen Reader needs to be witnessed this year and if so will email the Board out	Ongoing
13/2016	NLS will phone around and ask the question to companies regarding satellite centres	Agenda item
14/2016	TB asked NLS if she could get together some demographics for PCN L3s with the ages. NLS did state that this was currently in the process of being done so would add this to the list	Ongoing – NLS stated the report should be available within the next month or so

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

5. Membership (current list) No other matters arising.

- a. To note status and confirm contact details
NANDTB_06 was tabled and amended in real time.

6. Documents for discussion and/or approval

7. Qualifying Agencies

a. Oversight Matrix

After looking at the matrix, Alan Parsons needs to be witnessed at the NDT Consultants in Coventry on 2 November. JB volunteered to do this.

Action 16/2016 – TG to confirm to Tara Ashton that JB will witness AP at NDT Consultants

With regards to Karen Reader TG stated that she needs to be witnessed. SW confirmed that he would do the SWS audit on 15/16 August.

Action 17/2016 – TG to confirm to Tara Ashton that SW will witness KR at SWS

Clive Hammond has not yet been signed off but when he is, he will need to be witnessed.

b. Satellite Training Centres

JB stated that the Board has taken the view that there are some UK OAs that are setting up what the Board deem to be satellite centres overseas. These centres will then be operating under the QMS of the UK organisation and they would operate under the BINDT accreditation that the UK organisation has got. In reality though there would be no BINDT audit taking place at the overseas facilities. The three companies that the Board were under the impression were setting up overseas facilities stated that they weren't, even though the Board believed they were.

JB contacted those companies, namely Testia, SWS and NDT Consultants. JB stated that the first two have a facility in Singapore and NDT have one in India but it is a test lab. All 3 companies are of the view that they are not setting up training schools they are UK based businesses providing training and examination services overseas to anybody who wishes to pay for their services. Whilst they may go to an overseas company, if the employer prefers that the OA goes to them rather than them sending their personnel to the OA in the UK, then this is okay however the OA should do an audit of the facility to make sure everything is okay for them to do the training and examining the exams.

A discussion took place regarding this.

JB did state that he had no problems with UK companies going overseas setting up schools. However as long as they are your people, exams and test pieces are coming from the UK and shipped back to the UK, the certificates can have the Board logo on, however if they are operating independently then they cannot use the Board logo.

8. prEN4179:2014

JB advised the only thing he was going to share was that there is now another revision out for EN4179 2016 – this is the final version which is exactly the same as prEN4179 and this has been translated in to German and French. This will get submitted to the SEN members for voting on. The voting closed on 21 June and as at the date of the meeting, JB hadn't heard the outcome as of yet.

DG did state that he has a scenario that keeps happening from Europe. He said that for perspective jobs you ask for the written practice first. You get the written practices and this states NAS410 and EN4179 in the scope, you tell them they haven't revised it to the latest NAS410 or prEN4179 and they come back and state that their countries do not recognise the pr. DG asked if you use the written practice as or do you tell them to update.

TB stated that he was auditing with the LBA recently at an NDT school and brought up the fact that they hadn't updated their written practice. The company stated that they weren't doing this at the current time, but that they should be. The LBA had a problem with this and stated that Germany will stick to the 2009 version, however EASA had a conversation with them and EASA actually made a statement earlier in 2016 stating that European NAAs should be working to the prEN. Although within a month TB stated prEN4179 should be finalised.

JB stated that last year in the ANDTBF Seville meeting this was discussed and prEN4179 had to be implemented by all members of the forum by 2015. After attending a NADCAP meeting to stating that this would happen, a company in Germany was audited and hadn't implemented it and it was stated that the LBA would not accept this as it had not been translated in to German.

At the EASA Air Worthiness meeting on Cologne, the EASA recommendation to all the NAAs there was that they should be implementing this version of 4179 as it is harmonised with NAS410.

JB stated that he would go back to ASD to see what the outcome of the vote was and whether it had been accepted or not.

Action 18/2016 – JB to go back to ASD Stan regarding the outcome of the vote

JD stated that he had a couple of things that at this point in time he would like added to the spreadsheet to be brought up before the next revision.

The Board discussed these points and these were added by TG to the excel spreadsheet. These were regarding the annual maintenance and recertification.

TB also stated that he would like clarification of a part of EN4179. He stated that Table 3 talks about minimum experience required for a L3 in the common methods. So the L3 has PT, MT and he is going for RT. He has a degree so he states that he assumes he needs to have a years experience at L2. His training school has stated no as he has already done this so he can straight now as soon as the candidate is L2 in RT he can go and sit his exams and qualify as a Level 3? JB stated that this is not correct and that a candidate has to have a minimum amount of L2 experience in the method prior to becoming L3 certified in that method. TB stated that that is what the candidate thinks however the training school has stated that the candidate doesn't need to do that. TB thinks that some clarification needs to be sent to OAs to state this.

JB wanted it noted that this point was raised at the meeting.

DG also stated that what if you have someone has had 20 years in PT or MT and then gets Aerospace work and wants to become a L3? Now you have got to get EN4179 L2 now before you can get EN4179 L3 whereas before you didn't need to. How much experience does that person need? Do they need the full experience? JB did think it was down to the RL3 to determine what should be done. JB stated that if someone comes along and states they are L2 certified but in a different sector – this may not be to EN4179, ISO9712 or SNT TC 1A and they come in to your company but they are certified to L2 and you want to make them a L2 you could accept that L2's certificate but you have to administer L3 exams and then you could certify them at L2. JB stated that the standard doesn't state that prior certification has to be EN4179 L2 certification, it just states L2 certification.

TB stated that what the RL3 or the examiner needs to do is if you are going to give alleviation against the baseline of the standard, this needs to be documented, so you need to document your reasoning down formally because if anything goes wrong and you end up in Court, you are not going to have a leg to stand on. So when you are taking in to account previous employer or taking previous experience into account you need to document your reasoning. You do have to have the full exam also.

9. ANDTBF (JB)

JB confirmed that the last meeting was 18 June at WCNDT hosted by the German Aerospace Board.

The points that came out were the implementation of EN4179 by end of December 2015, JB went around the table to find out where they were and JB confirmed these results to the Board.

One of the things that was also raised was that either Boards are doing audits or overseeing other organisations who are doing audits of OAs or IAs. The question was raised that if this is being done, what was the frequency that this is done. JB confirmed these results to the Board. This needs to be standardised as everybody is doing things differently and after a discussion the proposal was that the frequency of the audit should be no greater than every 2 years. This line up with the NADCAP requirements for a maximum of 2 years and also ties in with the Pt 145 requirement of every 2 years. The members of the Forum are to go back to their Boards and confirm that this is what the Forum are trying to mandate.

The basic exam was discussed – this has been discussed here see above. After a discussion at the Forum an agreement was reached and the requirement has to be a minimum of 70 questions, has to cover all 7 methods and the minimum amount of questions on each method is 5. This will be agreed and will be published as an ANDTBF document.

JB stated that this will not be retrospective.

Regarding the annual maintenance check JB stated that this is defined by the employer and doesn't actually state what it is. The Swiss Board proposed something at the Telford meeting but this didn't get followed up and therefore at the last meeting a WG was put together to decide if it was going to be revised or knock it on the head and they are to come back with a proposal which will be put to the Forum and this will then be published as a document which states that everyone will have to do it. This will be a standardised annual maintenance and will need to be adhered to and this will hopefully then be embedded in the next revision of the standard.

The final thing was the issue of the approval of Boards and the Power Points are all on the EFNDT website. JB stated that EASA have confirmed that self-certification is unacceptable. JB did also stated that the AIA NDT sub-committee produced a white paper that states that there is a need for a programme a bit like NADCAP that audits and approves the activities of Aerospace Boards and rather than let this be driven by the Americans, this is something that needs to be looked at ourselves rather than something that is imposed on us. The general view of the Forum was why is having to be done and if EASA doesn't put this in writing then the Forum are of the view of why this should be done. If nothing is done JB fears that something may come along that people aren't happy with and therefore we need to go away and come back with a process that does this and puts this in place. EASA have been asked if they can further this and send something to the Board members. If something is put in place then it will not be free and then there will be who will do it and how it will be done. Therefore the Board may need to think about how it can generate funds. There is an action for this to be done. Carmen Chirita will take this back to EASA in the hope that they will start putting this together. Hopefully this will be for Aerospace Boards and also OAs or IAs rather than picking on Aerospace Boards.

The next meeting is to be held in Warsaw hosted by the Polish Aerospace Board on 16 November. This will be JB's last meeting as the Chair.

10. Pt. 145 Orgs and SIG members Update – (GMcC)

GMcC confirmed there was nothing to report.

11. Regulators Update – (TB)

TB confirmed that there has been an informal request to act on behalf of the Iceland Authority as they have been acting on behalf of the Latvian Authority however TB needs to look at the agreement and check everything is okay.

12. OA/IA Group

DG stated that there was a meeting on 23 May.

DG started by stating there is some movement on the PCN Aero questions and everybody is going to volunteer some questions.

The other thing that was discussed was the fact that BINDT getting a vote on the NANDT Board and now that a precedent has been set outside of the original scenario and that you had to be a Prime to have a vote. OA/IA have asked if they can have a vote. Also along with OA/IA group and also other members.

CDu stated that he thinks they should have a vote. However TB did state that if that is the route that is chosen by the Board, there will be some things that they cannot vote on. CDu did also state that they have input.

This is a vote for the representative of the OA/IA group not for each individual OA/IA group.

JB stated that there was a proposal for the representative of the OA/IA rather than be a co-opted member, becomes a voting member.

DG and GMcC were asked to leave the remove for this to be discussed.

A closed discussion took place regarding the above proposal.

The proposal was put to a vote – do the Board agree for the representative of the OA/IA group become a voting member.

In favour – none

Against – 7

Abstention – 1

Second proposal was put to a vote – should Graham McCully as Pt 145/SIG member have voting rights.

In favour – none

Against – 7

Abstention – 1

Upon returning to the room JB had informed DG and GMcC of the outcome of the vote along with the reasoning for this decision.

DG will report this back to the OA/IA group at the next minutes.

Another matter that was discussed was the difficulty of L1, L2 and L3 questions which was taken back to the group the only thought on this was that L2 needs to be harder than L1 and L3 needs to be harder than L2.

JB did state on this subject if you look at the standard it states “that the general exam for all levels shall be a closed book examination covering a cross section of the applicable method at the appropriate level”, it was noted this doesn’t use the same language and say the specific exam “the specific exam for all levels shall be an open book exam covering all the requirements and use of the specification, codes, equipment, operating procedures and test techniques”. JB stated that there have been instances through the audit process where it has been found that the L2 specific exams and the L3 specific are one in the same and when this has cropped up the Board has stated that they should be separate L2 and L3. The standard doesn’t say that, this is how it has been interpreted. This needs to be put on the Excel spreadsheet for the next revision of the standard.

TB stated the specific exam is more about the employers needs and therefore the influence of the RL3 should be more and structured at what the employer requires. The questions should be of a higher standard.

A discussion took place regarding this. DG did state that the outcome of the meeting discussion was that it is up to the RL3 to decide.

“Demonstrating a level of competence at the appropriate level”. DG will take this back to the next OA/IA meeting.

What was also discussed what the basic exam questions. However this has been previously agreed at the ANDTBF.

TB asked about emerging methods being taken in to account and a discussion took place regarding this.

Various people asked about voting in someone else instead of Colin Thomas temporarily, there is someone missing off OA/IA and DG is the VC so he attends and DG can’t also attend every

meeting of the NANDTB. JB stated that if Colin Thomas isn't able to attend the meetings then it is up to the OA/IA to decide to vote someone in temporarily.

The next meeting is 6 September 2016.

13. Any other business

a. NDT Control

TG emailed out with the Agenda information from Graham Chapman who had major concerns with the industry and he asked CDu to present this.

A discussion took place regarding this.

TB stated that he was outvoted by seniors but if there is evidence to say that GR23 needs more activity to look at the contract review then TB can attempt to take this forward. TB did state that having looked at the document Graham Chapman has provided and he may be able to tighten GR23 up.

NANDTB are sympathetic to the things Graham Chapman brought up and the CAA will try and take this forward.

b. Evidence of Experience

TG tabled an email provided by JB. This email was from Andy Bakewell and JB explained that the standard has tightened up a bit and states that when you are gaining experience rather than people attesting to the fact of the minimum amount of experience there now has to be a log providing evidence of what that experience is. It needs to document the person, the date, the task, the hours and the certified personnel providing the documentation. JB is under the impression you need to keep details of the experience that was gained by an individual, the date they obtained that experience, what it was they were doing and the number of hours they were doing. JB stated this is black and white.

Andy Bakewell wanted clarification of how detailed the task description needs to be? JB stated that when is reviewing approval packs he just gets a list of part numbers etc. JB wants to see more of an in depth description. A discussion took place regarding this.

RB stated that they now use a system called ELMS and this is something brought in by Jet 2 and Flybe. You log all your experience on this system. This is something that has to be paid for by the company. RB stated that when you do a task you copy the worksheet you have been certified on and upload it and then it is verified by something. However Flybe have asked RB who can verify experience within NDT. They have asked if a L1 can verify a L1 to which the answer was no. A L2 can verify a L1 in the same method. When you get to a L3 who can verify the L3?

JB did explain that the standard is quite clear about who can supervise experience at different levels. On the task list JB wondered whether it would be a good idea to break down some tasks on there and see what that looks like.

PB stated about the CPD on BINDT website would it work for NANDTB. NLS stated it was in the personal section of BINDT website to keep the CPD activity up to date. CPD and logging experience is not the same thing.

A discussion took place and TB understood the request as what are suitable tasks to take credit for in developing a person's experience? Log sheets sometimes do not go in to detail about what jobs have been done. What range of jobs are acceptable.

A discussion took place regarding this and the outcome of the Board was as below.

JB did state that the view of the Board is the definition of tasks are "as defined by the RL3 but should be varied as is necessary to ensure all tasks which the individual is responsible for performing have been suitably covered".

c. Etch Inspection

JB stated from the previous NADCAP minutes of the last meeting that a statement had been made by Phil Ford that etch inspection examinations were going to come under the control of Aerospace Boards. JB did asked Phil Ford who had stated this. JB has got an action to make a statement as to whether Aerospace Boards were or were not going to be controlling etch inspection examinations as at the moment the only thing within the scope are the methods covered in EN4179.

A discussion took place regarding this.

JB stated that the bottom line in relation to this is if they are under the control of the Board then the auditor does not need to see the exams or if they are not under the control of the Board then the auditor will ask to see the examinations administered by the company.

JB stated that Rolls Royce have seen this requirement coming and know that they need to formally train, examine and approve people who are doing etch inspection. Rolls Royce has devised a specification which is in the spirit of EN4179 but it only follows the same route. This is only a guidance document.

JB also stated that the action that is coming back to JB is are the Board saying that etch inspection examinations are under the control of the UK Aerospace Board. JB's view is they are not.

d. Audit Review Team

NLS stated that the above had Chris Dootson on it and therefore are looking for a replacement for it in case of holiday or leave. A new team will be selected in September. Bobby Scott put his name down for this.

14. Date and location of the next meeting

56th Meeting – 13 September – BINDT Conference, Nottingham

57th Meeting – 6 December – Airbus, Broughton

Annex A – attendance and apologies for absence at the 28 June 2016 NANDTB meeting no. 55

Name	Representing	In attendance	Apologies for absence
Alun Williams (AW)	(Airbus UK)	1	
Bobby Scott/ Ralph Duff (BS/RD)	(Bombardier)	1	
Carl Sheppard (CS)	(British Airways)		1
Chris Durrant (CDu)	(Messier-Bugatti-Dowty)	1	
Clive Worrall (CW)	(British Airways)		1
Colin Thomas (Co-opted) (CT)	(Training & Examination Group)		1
Dave Griffin (Co-opted) (DG)	(Training & Examination Group Deputy)	1	
Jes Dugard/Phil Byram (Observer) (JD/PB)	(MoD)	1 - 1	
Graham Mcleod (GMcl)	(Honeywell)		1
Graham McCully (Co-opted) (GMcC)	(Pt. 145 Orgs, QAs and SIG members)	1	
Jon Biddulph (Chair) (JB)	(Rolls Royce)	1	
Keith Griffiths (KG)	(Rolls Royce)	1	
Kevin Pickup (KP)	(BAE Systems)		1
Mandy Cox (Observer) (MC)	MAA	1	
Nicole Scutt (Co-opted) (NLS)	(BINDT)	1	
Patrick Boulton (PJB)	(BINDT)	1	
Rob Bright (RB)	(Flybe)	1	
Stuart Algar (Observer) (SA)	(Civil Aviation Authority)		1
Stuart Wroot (SW)	(Agusta Westland)	1	
Ted Blacklay (Observer) (TB)	(Civil Aviation Authority)	1	
Tracy Grant (Secretary) (TG)	(BINDT)	1	
	Totals	16	6

Actions allocated and carried over from meeting 54th Meeting

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67/2015	TB, JB, CS, MC, JT and CT to provisionally draft GR23	Ongoing
68/2015	TB will try and organise an agenda for this for the meeting to be held at CAA	Ongoing
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New Action 03/2016	Working Group to consider alternative methods of experience/competence	Ongoing – draft document to be shown at next meeting in September
04/2016	TB will review to the document to make sure that the scope was acceptable.	OAQS6
07/2016	GMcC to review the NANDTB_14 PP	Ongoing
08/2016	GMcC to review the NANDTB_19 PP	Ongoing
09/2016	JD and GMcC to review the NANDTB_23 PP	Ongoing
12/2016	NLS will also check to see whether Karen Reader needs to be witnessed this year and if so will email the Board out	Ongoing
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15/2016	NLS to speak to David Gilbert about looking at the NANDTB microsite	
16/2016	TG to confirm to Tara Ashton that JB will witness AP at NDT Consultants	
17/2016	TG to confirm to Tara Ashton that SW will witness KR at SWS	
18/2016	JB to go back to ASD Stan regarding the outcome of vote re fprEN4179 2016	