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**CONFIRMED NOTES OF THE 42nd MEETING OF THE
 UK NATIONAL AEROSPACE NDT BOARD**

Meeting Date: 17 April 2013
 Location: Rolls-Royce, Glasgow

NANDTB/2013/M2

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

The Board discussed and approved the agenda.

2. Attendance & apologies for absence (Annex A)

As per sheet.

3. Notes of the 40th meeting

- a. **Confirmation** - The Board reviewed the minutes and they were approved.
- b. **Review of allocated actions**

Ref	Actions brought forward	Remarks
01/2013	C Worrall was requested to chase for the nomination of Carl Sheppard.	Closed
02/2013	NLS to check the possibility of holding a NANDTB forum at the next (BINDT) UK Certification Conference.	Closed
03/2013	NLS to tender out the requirement for specific questions written against the new essential standards list.	Ongoing
04/2013	NLS to get formal nomination letter from CEO, BINDT.	Closed
05/2013	J Biddulph (LEAD), C Thomas, B Scott, T Blacklay, S Algar to review NANDTB-02 and NANDTB-04. Comments to be submitted to J Cook by close of business 5th April 2013 for implementation with approval at the next meeting.	Closed Document reviewed under agenda item 5
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.	Ongoing Document update to be postponed until publication of new issue EN 4179
07/2013	J Biddulph to review NANDTB-25. Comments to be submitted to J Cook by close of business 5th April 2013 for implementation with approval at the next meeting.	Closed Document reviewed under agenda item 5

08/2013	B Scott (LEAD), C Worrall, D Griffin to create a new document, NANDTB-27, on policy. Comments to be submitted to J Cook by close of business 5th April 2013 for implementation with approval at the next meeting.	Ongoing
09/2013	J Cook to amend NANDTB-12 to state ISO 17025, re-issue and upload to the web and to amend the checklist and J Cook to re-issue to OA/IAs.	Closed
10/2013	J Cook to update FAQ page with clarification on duration of qualification.	Closed
11/2013	NLS to email all questions/complaints to J Biddulph in order to create a formal response.	Closed
12/2013	J Cook write to Kenyan Airways/Chromalloy to accept affiliation based on confirmation of compliance with NANDTB-21.	Closed
13/2013	B Scott (LEAD), N Scutt, C Thomas, C Dootson, S Algar to review and amend ANDTB-21 conformance clarification.	Ongoing WG to continue outside the main meetings.
14/2013	NLS to upload audit reports to the website for review and approval	Closed
15/2013	J Cook to issue out the oversight matrix with confirmed dates.	Closed
16/2013	All members to submit comments on draft harmonised NAS410/EN 4179 by 20th March 2013.	Closed

The actions were reviewed and discussed with specific mention to the following:

02/2013 - N Scutt advised the Board that the UK Certification conference was to be held biennially therefore it would not be held again until 2014. The Board expressed their need for UK NANDTB presence in the current year and members advised that alternative conference options were being investigated.

13/2013 - it was agreed that the working group continue to work on this document outside of the NANDTB meetings.

14/2013 - It was advised that there were 3 responses received for the approval of audit reports. It was noted that 3 was the minimum response required for UK NANDTB sign off of audits and that Board members had to be chased.

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

None raised.

4. Membership (current list)

a. To note status and confirm contact details –

The current table of members, document NANDTB_06 was shown to the Board. This was reviewed and approved with one amendment to show Paul Marshall as a representative of MAA not MoD.

There was a discussion regarding the MoD wanting to become a voting member on the Board as a design organisation and would like to nominate their responsible L3 which is an employee of (SWS of NDT). Colin Thomas expressed concern that SWS of NDT currently have the contract and if the Board decide to reject the nomination due to the fact of who the nominee is rather than a Board principal he would resign. C Dootson stated that in his opinion the MoD satisfy the requirements of the Board. It was noted that conditions may need to be applied due to the fact that an employee of an Outside Agency will be viewing and voting on audit reports from other organisations.

The Board voted on accepting the MoD in principal but the chairman will write to the MoD asking for who their nominee will be clarifying the responsibilities of the Board members, CT abstained. **Action 17/2013 - J Biddulph to write to the MoD re-iterating the minimum responsibilities of their nominated representative in accordance with the Term of Reference (NANDTB-04) and convey the Board's decision to agree that the MOD request for voting membership status.**

5. Documents for discussion and/or approval -

a. See table of documents NANDTB_01

As per actions 05/2013 and 07/2013 the revised documents NANDTB-02, 03, 04 and 25 were presented to the Board and approved with only minor, font amendments.

b. Audit Checklist - (Discuss amendments)

No new amendments to the checklist

c. Outside Agency Process (Flowchart previously distributed for review)

A flowchart was drafted by the committee secretary and presented to the Board. The group felt that improvements were required and that this should be re-distributed for comment. **Action 18/2013 - J Cook to distribute the draft OA flowchart for comment by the Board.**

6. Affiliation - New applications

It was reported that Chromalloy (Thailand), Bet Shamesh Engines and Thai Airways applied for affiliation;

The Board reviewed and discussed the application from Chromalloy (Thailand). It was suggested that the organisation should be contacted for clarification on their understanding and compliance with the NANDTB21 requirements. **Action 19/2013 - J Cook to contact Chromalloy (Thailand) to confirm their understanding of the NANDTB-21.**

Bet Shamesh Engines were reviewed and approved under the current rules/requirements.

Finally Thai Airways application was reviewed and discussed. The Board mentioned that the letter of request was not very clear and it was noted that the organisation have affiliation with the Australian NANDTB.

At this point N Scutt mentioned the status of the MoU between AINDT and BINDT and explained that the organisations would be working together on matching requirements, that AINDT currently have 1 AQB and that audits in Australia would be carried out by someone at AINDT using BINDT requirements. **Action 20/2013 - J Cook to contact Thai Airways to confirm their requirement for affiliation or other and to clarify their affiliation with the Australian NANDTB and subsequently to confirm their understanding of the NANDTB-21 if affiliation is what they require.**

A discussion took place regarding conformance to the NANDTB-21. The Board were presented with a confirmation of conformance letter and matrix drafted by BINDT. The letter asks organisations to confirm that they have read, understood and comply with the NANDTB-21, it also asks them to state which OA/IA/AQB/ATO they would be using for their training/examinations and requests copies of personnel certificates.

After further discussion, it was agreed that the working group should meet to discuss Overseas Affiliations and report back to the Board with recommendations. It was suggested that there should be more volunteers for this working group, in addition to the original volunteers the following members agreed to join the group;

P Berkley, K Phillips, A Williams, J Biddulph and it was decided that the working group meeting be held at the BINDT offices on Wednesday 8th May.

Ongoing Action 13/2013 - B Scott (LEAD), N Scutt, C Thomas, C Dootson, S Algar, J Biddulph, A Williams, K Phillips, P Berkley to review and make recommendations

J Biddulph proposed that the UK NANDTB no longer accept overseas affiliations and explained that the Board have been 'left' with the responsibility of managing these affiliations after the CAA surveyors have pushed the overseas organisations to the UK for having no NANDTB in their own member state. T Blacklay clarified that the CAA visit overseas organisations on behalf of EASA.

Due to his role as chairman J Biddulph obligated K Griffiths take on this proposal, which was seconded by P Berkley. 1 vote was received in favour of this proposal.

It was suggested that overseas organisations were looking to affiliate with the UK NANDTB because the examinations are in English which is seen as a universal business language.

A counter proposal was suggested by C Thomas, who stated that the matter of overseas affiliations be put back on the main agenda for the next Board meeting in June after the working group have met and decided on a recommendation(s). Overall the Board agreed that this should be the way forward on this subject and it was advised that the Board write to EASA stating their position and thoughts on overseas affiliations.

This counter proposal was seconded by B Scott. 6 votes were received in favour of this proposal.

It was added that Taikoo (China) and UTC (China) were Inside agencies, T Blacklay advised that because these organisations have Inside agency status they must affiliate and comply with the NANDTB-21 and that this should be discussed at the working group meeting.

7. Aerospace question review panel. – feedback

No feedback available. The question review meeting was cancelled due to an EGM being held on the scheduled day. It is noted for the minutes that BINDT was not invited to attend the EGM meeting.

The Board were advised that the next UK NANDTB meeting 26th June would now be held in Newport, Wales. It was suggested that the volunteers from the Board meet the day before the scheduled meeting to review MT/PT questions. The following people volunteered; R Bright, C Worrall, K Phillips, K Griffiths, G McCully, P Berkley.

It was also agreed that the RT/UT questions be reviewed the day before the September meeting The following people volunteered; J Biddulph, G McCully, K Griffiths, P Berkley, R Bright.

Finally the following people volunteered to review the ET questions; K Phillips, K Griffiths, P Berkley, G McCully a date for this is to be arranged by N Scutt. [Action 21/2013 - N Scutt to arrange a date for the review of ET questions.](#)

8. Qualifying Agencies

a. Oversight Matrix - Update

The oversight matrix was presented to the Board. It was advised that no members of the UK NANDTB had opted for observation dates for oversight audits. The Board requested that the matrix be added to the forum so it was available at the member's convenience. [Action 22/2013 - N Scutt to add the oversight matrix to the forum.](#)

- C Durrant opted for an IA audit at Moog Aircraft Co. Ltd
- K Phillips opted for OA audit at NDT consultants
- J Biddulph opted for an ATO audit at Lavender International
- P Berkley opted for an IA audit at Firth Rixson Forgings
- C Dootson opted for an ATO audit at International School of Aerospace

b. New applications

It was advised that IA audit for Brazil was still in the process of being scheduled.

- i. Discussion about audit reports posted on website &**
- ii. Why are reports posted incomplete**

N Scutt re-iterated the audit process and explained that all committees approve an auditor's recommendations subject to corrected clearances with continued certification. This subject provoked a heated discussion between the Board who expressed their aversion to the current process. J Biddulph requested that all reports are completed and closed before they are put on the web for approval. N Scutt agreed to submit, only, completed and closed reports to the web for approval.

9. TEG Report - (DG) –

Due to complaints received, J Biddulph raised concerns that the TEG mailing list does not reach all organisations. It was clarified that Gary Elliott (TEG Chair) sends invitations to all trainers and examiners (including overseas organisations) to attend the meetings and they are issued with minutes.

C Thomas advised that organisations always have the opportunity to comment and get involved, it was suggested that the organisations are contacted to emphasise this point. [Action 23/2013 - C Thomas to review TEG mailing list to make sure it is up to date.](#) N Scutt confirmed that the chairman of TEG had been issued an up to date list of contacts from BINDT.

10. NAS410/EN4179, Update - (JB)

J Biddulph reported that the draft NAS410 update was issued to UK NANDTB members via email and comments were received with thanks. The comments received in time were collated, reported back and the NAS410 would be subject to an approval process which should see the document available by the end of 2013.

C Dootson advised that the Board are required to publish a statement to organisations affected by the NAS410 changes.

J Biddulph noted that a draft prEN ISO 18490 for vision requirements had also been distributed via email to the Board for comment, comments received showed the Tumbling E to be the preferred test method.

11. Regulators update - (TB) –

T Blacklay re-iterated that a statement is required for his management team expressing what the UK NANDTB wants the forum to achieve. [Action 24/2013 - J Biddulph to collate suggestions for the Board and will issue to T Blacklay.](#)

The subject of Elch testing was raised and T Blacklay stated that a D1 rated organisation is only half the approval test house for NDT if the technique is not classed as NDT method. It was noted that a D1 rated organisation cannot carry out the testing. T Blacklay advised that the CAA want a definitive answer stating that it is an NDT technique, although questions ask what method it falls under.

K Phillips gave the Board a brief explanation of what the Elch testing method involved and stated that it is a test which is carried out as part of an NDT inspection, a method compared to Shearography. It was added that the test would be carried out after a repair to test around the repair.

The NANDTB-18 Training and Certification guidance document was shown and the Board discussed the possibility of classing Elch testing as an NDT technique. It was agreed that this testing method should be added to the NANDTB-18 document under 'Formal documented training and competency assessment'/'Other than direct readout instruments'. [Action 25/2013 - J Cook to update NANDTB-18 and upload to website.](#)

12. Pt. 145 Orgs, QAs and SIG members update - (GMc) -

It was noted that there were 4 questions that required formal response from the UK NANDTB. J Biddulph requested that G McCully respond to the inquirer with the Boards response as soon as possible as waiting until the meeting minutes had been approved and confirmed after the next board meeting was an unacceptable delay.

The first 2 questions requested a uniformed approach to what specifications should be detailed on training and examination certificates issued by training and examination organisation. In most instances it appeared acceptable for suppliers to quote their own internal specifications which complied with customer requirements, however one UK prime was insistent on their specification being included. A show of hands by Prime Contractor members showed this was a unique requirement and the Prime in question was asked if they would re-consider their position. However after further discussion it was agreed that the responsibility rested with the employer to flow down specifications that needed to be addressed by the training and/or examinations [the 'input'] and that the resulting certificates issued [the 'output'] should reflect exactly the input. Where no input was provided by the employer, the training/examination organisation should seek clarification from the employers Responsible Level 3. [Action 26/2013 - J Biddulph to draft an advisory to this effect.](#)

The third question requested clarification about what training and experience was required for an individual transitioning from film to filmless radiography at level 3. J Biddulph advised that this would be instructed in the next issue of EN4179, the latest draft of which requires 40 hours formal training and 240 hours of experience plus examinations.

The final question asked if an organisation had its own NDT personnel, certified in accordance with their written practice per NAS410/EN4179, but needed to use personnel from another organisation to cover sickness or holidays, what were the requirements for their certification? The Board discussed this and there were two scenarios. Where personnel are contracted in to be employed by the organisation, they

must be treated like an employee and be certified in accordance with the employer's written practice. Where personnel are used who remain certified by their current employer, the organisation wishing to use these individuals can utilise them under their employers certification but must perform whatever induction, training, qualification, quality checks etc. as deemed necessary to perform the NDT activity in a satisfactory and compliant manner and this must be documented.

13. Any other business

None raised.

14. Date and location of the next meeting

3 - 25-26th June 2013 - Airbus Filton, Newport

It was advised that the next meeting has been relocated from Bristol to Newport.

4 - 3-4th September 2013 - Caparo, Reigate

5 - 15-16th October 2013 - Bombarider, Belfast

6 - 3-4th December 2013 - MTD, Cardiff

Annex A – attendance and apologies for absence at the 17 April 2013 NANDTB meeting

Name	Representing	In attendance	Apologies for absence
Alun Williams	(Airbus UK)	1	
Bobby Scott	(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	(Messier-Bugatti-Dowty)	1	
Dave Griffin	(Training & Examination Group)		1
Graham Mcleod	(Honeywell)		1
Graham McCully	(Pt. 145 Orgs, QAs and SIG members)	1	
Jon Biddulph (Chairman)	(Rolls Royce)	1	
Keith Griffiths	(Rolls Royce)	1	
Keith Phillips	(Airbus UK)	1	
Jennifer Cook (Secretary)	(BINDT)	1	
Nicole Scutt	(BINDT)	1	
Paul Marshall	(MAA)		1
Phil Berkley	(Agusta Westland)	1	
Rob Bright	(Flybe)	1	
Ted Blacklay	(Civil Aviation Authority)	1	
Stuart Algar	(Civil Aviation Authority)	1	
	Totals	16	4

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03/2013	NLS to tender out the requirement for specific questions written against the new essential standards list.	Ongoing
06/2013	C Worrall (LEAD), G McCull, 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.	Ongoing Document update to be postponed until publication of new issue EN 4179
08/2013	B Scott (LEAD), C Worrall, D Griffin to create a new document, NANDTB-27, on policy. Comments to be submitted to J Cook by close of business 5th April 2013 for implementation with approval at the next meeting.	Ongoing
13/2013	B Scott (LEAD), N Scutt, C Thomas, C Dootson, S Algar P Berkley, K Phillips, A Williams, C Dootson, J Biddulph to review and amend NANDTB-21 conformance clarification.	Ongoing WG to continue 8th May 2013 outside the main meetings.
17/2013	J Biddulph to write to the MoD re-iterating the minimum responsibilities of their nominated representative in accordance with the Term of Reference (NANDTB-04) and convey the Board's decision to agree that the MOD request for voting membership status	CLOSED (letter issued 18/05/2013)
18/2013	J Cook to distribute the draft OA flowchart for comment by the Board. Response from the Board required	
19/2013	J Cook to contact Chromalloy (Thailand) to confirm their understanding of the NANDTB-21.	
20/2013	J Cook to contact Thai Airways to confirm their requirement for affiliation or other and to clarify their affiliation with the Australian NANDTB and subsequently to confirm their understanding of the NANDTB-21 if affiliation is what they require.	
21/2013	N Scutt to arrange a date for the review of ET questions	
22/2013	N Scutt to add the oversight matrix to the forum.	
23/2013	C Thomas to review TEG mailing list to make sure it is up to date.	
24/2013	J Biddulph to collate suggestions for the Board and will issue to T Blacklay.	
25/2013	J Cook to update NANDTB-18 and upload to website.	
26/2013	J Biddulph to create an advisory for specification details on training/examination certificates.	