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CONFIRMED MINUTES OF THE 34th MEETING OF THE UK NATIONAL AEROSPACE NDT BOARD

Meeting Date: 2011-12-01
 Location: Messier-Bugatti-Dowty, Gloucester

NANDTB/2011/M6

1. Attendance & apologies for absence (annex A)
2. [Notes of the last meeting](#)
 - a. Acceptance of the notes of the last meeting were accepted with amendment of the BINDT address.
 - b. Review of actions assigned at the last meeting:

Ref	Actions brought forward	Remarks
2011/23	GMcC, JRT and CT to draft an industry standard for ET of Aerospace Products that would suffice for use in open book specific exams as well as for use in question and training development.	Carried Forward (CF). Awaiting a first draft from GMcC. Additional action: BS to provide draft NADCAP ET audit checklist (completed 2011-12-06).
2011/42	Sub-group comprising JB, CT, PJM and JRT to define terms for OA, IA and ATO, etc., and draft NAndTB/12 rev for comment and approval by 34 th meeting.	See 2011/59
2011/43	CT to request that TEG compile an OA examiner checklist for use when designing/preparing exams for consideration by the Board at its next meeting	CF (TEG likely to meet in January 2012)
2011/45	Ensure that the following is reflected in relevant requirements: The Board will recognise only those ATO with certificated QMS (to ISO 9001 or BINDT recognised equivalent). OA/IA must operate a quality management system, but need not have a certificated QMS.	PJM: Completed
2011/47	PCN received a query: "I've just attended an 80 hour IRT course and in the process of building up my hours for level 2. What I need to know is how can I achieve the next step to level 3? When are PCN (aero) / NANDTB going to bring this qualification on board?" PJM to refer to the next meeting of the PCN CMC and Secretary to add with a response to FAQ.	CF: Secretary to update the FAQ and respond with info on PCN development, suggesting ASNT / EN 4179 qualification in the interim.
2011/48	PJM/BINDT to publicise the agreed UK NAndTB policy on recognition of overseas PCN aerospace AQB and BINDT accredited OA and IA	CF: place on Board's website and in JB's NDT News report; PJM to feed into BINDT Aero Group.
2011/49	Secretary to include an agenda item for the next meeting on how the UK Board would in future maintain oversight of overseas AQB and IA audits.	completed

2011/50	Secretary to include Joint Aerospace NDT Forum (JANDTF) PPP as annex C to minutes; JB to draft article for NDT News on JANDTF; BINDT to facilitate annual or bi-annual meeting(s) of JANDTF in order to avoid duplication of effort.	completed
2011/51	Secretary to update NANDTB documents on website	CF: JRT
2011/52	Secretary to review regulations to ascertain the route for CEN standards to be adopted as ISO standards.	JRT: Vienna Agreement summary attached as an annex (C) to these notes.
2011/53	Action 2011/53: Secretary to invite comments on the present NANDTB website for concatenation and recirculation to the Board before sending to BINDT Pubs with request for an update to the website.	Completed; now awaiting draft of proposed NAndtB micro-site.
2011/54	Secretary to distribute NANDTB website statistical report with the minutes	completed
2011/55	PJM to ensure that the MoD Tri-service school of NDT is listed in QS2	completed
2011/56	PJM to distribute the audit programmes and reports to the Board for each meeting so that oversight arrangements can be considered.	CF: PJM to adopt as SOP (via secure area on website)
2011/57	PJM to take action to make audit reports available to the Board members, and the CAA and MAA, via a secure access area of the Board's website.	CF: PJM to adopt as SOP (via secure area on website)
2011/59	NANDTB/12 revision sub group to capture the discussed detail in the revision, as well as the criteria decided at the previous meeting: <i>"the Board agreed to recognise only those ATO with certificated QMS to ISO 9001 or BINDT recognised equivalent, such as part 21/145 approval"</i> . Include definitions of terms for OA, IA and ATO, etc.	CF: Sub-group meetings delayed
2011/60	PJM to remove the L3 services element from the present OA checklist.	CF: PJM to adopt as SOP. Action completed.
2011/61	sub-group comprising BS, DG, CS/CW to propose alternative dispensations in terms of UK qualifications that might be considered equivalent to those presently listed in EN 4179.	CF

3. Membership ([current list](#))

- a. The Board noted present membership status and confirmed contact details.
- b. An application for NANDTB membership from Flybe ([SK2JB](#) & [JRT2RB](#)) was reviewed and discussed. The consensus that Flybe met the criteria for membership, and their inclusion would improve the part 21/145 balance of board members. The application was approved by ballot (proposer: SG; seconder CW; vote: 5 in favour, 1 against). **Action: 2011/62 Secretary** to progress the formalities of Flybe membership.

4. Documents for discussion and/or approval

- a. Revision of NANDTB/12 (**Action 2011/42**).
 - i. It was agreed that the existing Task Group (JB, CT and JRT) be left to initiate and complete this revision circulating a final draft for approval at the next meeting.
- b. A systematic review of NANDTB documents from [NANDTB/01](#) was initiated:
 - i. NAndtB/05: BS, TB & JB.
 - ii. NAndtB/10: PJM, SG & CT.
 - iii. NAndtB/13: PJM, SG & CT.
 - iv. NAndtB/14: JB, CT & BS (reformat ppt file as Word.doc, removing IRT example because this is now an EN 4179 main method)
 - v. NAndtB/15: KP, DG & GMcC
 - vi. NAndtB/21: CDo & TB

Action 2011/63: Board Members (assigned above) to initiate a review and, where appropriate, a revision of specified NAndtB documents.

5. UKNANDTB Website

- a. Development and maintenance. NAndtB Micro-site due completion mid 2012. Secretary to request presentation from DJG as soon as preliminary model was available. **Action 2011/64: JRT** to communicate the Board's wishes to DJG.
- b. [statistical report](#). The Board was presented with a standard report form. Following a review and discussion, the Board requested a glossary of terms used in the stats report. **Action 2011/65: JRT** to discuss with DJG on how we can best interpret and use the data.

6. Control of Qualifying Agencies

- a. Interested parties left the meeting while PJM presented an OA audit report, and verbally reported on AQB and relevant ATO assessments conducted since last meeting. The Board agreed that future audit schedules and reports be made available to Board members and the CAA/MAA via a secure area of the website.
- b. It was pointed out that the board had not carried out any oversight of BINDT audits this year, and it was agreed that this was not satisfactory. It was agreed that the audit schedules be made available for member perusal as soon as possible in order to facilitate an early resumption of the oversight process.
- c. The method of oversight of BINDT audits of overseas OA/IA and AQB was discussed.
 - i It was suggested by CT, supported by TB, and agreed in discussion that the Board would base its confidence in the BINDT conducted audits upon the oversights conducted in the UK.
 - ii However, whenever a Board member was likely to be in an overseas area where ATO/AQB/IA/OA audits were scheduled (PJM having made schedules available on a secure area of the website), the member's representative should seek to conduct an oversight of a BINDt audit (this may involve rescheduling of a programmed audit to facilitate such oversight).
- d. It was recalled from the most recent Reigate meeting that all initial method training (i.e., not specific training) shall have been provided by a BINDT Accredited Training organisation (ATO).

7. Any other business

- a. Qualification of filmless RT operators (see [message](#))
 - i BS had received an email in which it was reported that the MAI documents discussed both in Pittsburgh and London define training for filmless RT. It had been assumed that this is what will go in the revised versions of NAS 410 and EN 4179, but it had been queried whether filmless RT will be classed as a bolt on to conventional RT or a new method. Following discussion, the Board concluded that filmless RT is not a different method; It merely records and presents test data in a different medium. **Action 2011/66:** This conclusion to be communicated by **BS** to the enquirer
- b. Questions asked by Phil Keown (NDE SPTC Leader, GE Aviation) via the ANDTBF Chairman:

Question	UK NANDTB Response (proposed)
Does the UK NANDTB allow recertification by the Point System (EN 4179 Appendix A)?	The UK Board recognises recertification through the points system.
Do any of the NANDTB's consider certification by their Board to be transferable? (If you work for Employer A, and are certified by the NANDTB for that country, then leave and go to work for Employer B, who also uses the services of the NANDTB for that country, is Employer B exempted from having this employee retested?)	The UK Board has not published any policy on transferability, but would expect the new employer to comply with the requirements of the standard.
How do the various National Aerospace NDT Boards establish their membership? Are suppliers included on any	The UK National Aerospace NDT Board is chartered by, and composed of, the participating

<p>of the NANDTB's as voting members, or are the Boards comprised solely of Primes?</p>	<p>prime contractors and other aerospace organisations holding design authority for Aerospace Structures, Engines and/or Components. The UK civil and military aviation safety regulators are observer members. Suppliers of NDT services (not components) attend the Board meetings as co-opted members.</p>
<p>Would it be possible for Asian countries, specifically China right now, to attend the ANDTBF meetings?</p>	<p>The UK Board would welcome attendance at the Forum of observer representatives from non-forum member NANDTB.</p>
<p>Please provide a brief synopsis of how NANDTBF members function (do they administer exams, approve sites to administer training and exams, a combination of the two or something different)?</p>	<p>The UK Board controls qualification examinations and pre-examination training delivered by BINDT assessed and approved Authorised Qualifying Bodies (AQB), Accredited Training Organisations (ATO), Internal Agencies and Outside Agencies. The UK Board's control is established through a system of oversight of BINDT assessments of these organisations. BINDT is a UKAS accredited NDT personnel certification body (ISO IEC 17024), and a UKAS accredited management system (ISO IEC 17021) certification body. The UK aviation regulatory bodies take cognizance of the policies published by the UK NANDTB and ensure compliance during their regulatory activities within the industry.</p>
<p>Question submitted to the UK NANDTB regarding specific training for filmless radiography.</p> <p>Currently the MAI documents referenced in the presentation both in Pittsburgh and London define training. We all assume this is what will go in the revised versions of NAS 410 and EN 4179, but what we don't know is if filmless will be classed as a bolt on to conventional RT or a new method.</p> <p>I would like to know what the UK NANDT Board's stance is on using non UK based training schools in the UK in cases like this.</p>	<p>To be under the control of the UK NANDTB, general training and examinations shall be provided by BINDT ATO/OA, but job/technique specific/on the job training can be provided on location in the UK or USA by competent individuals/organisations that are not BINDT ATO/OA.</p>

Action 2011/67: Secretary to add to NANDTB FAQ file on website.

8. Date and location of future meetings of the UK NAndTB

- a. 35th: 2012-02-01 at BINDT, Northampton (PJM confirmed availability of facilities and catering)
- b. 36th: 2012-03-28 at BA, Hayes (to be confirmed)
- c. 37th: 2012-06-06 at Bombardier, Belfast
- d. 38th: 2012-08-22 at Caparo Testing, venue TBD
- e. 39th: 2012-10-03 at MoD, Abbey Wood
- f. 40th: 2012-12-05 at MT&D, Cardiff

ANNEX A - attendance

Name	Affiliation	Attending or apologies for absence
Alun Williams	Airbus UK	Apologies
Bobby Scott	Bombardier	Attending (meeting chairman)* ¹
Chris Dootson	BAE Systems	Apologies
Chris Durrant	Messier Dowty	Attending* ¹
Graham Rourke	CAA	Apologies
Chris Lawrence	CAA	Apologies
Carl Sheppard	British Airways	Apologies
Clive Worrall	British Airways	Attending* ¹
Colin Thomas	Messier Dowty	Attending
Dave Griffin	UK TEG	Attending
Graham McCully	Part 145, SIG and OA	Apologies
John Purcell	MOD	Apologies
John Thompson	NANDTB Secretary	Attending
Jon Biddulph	Rolls-Royce	Apologies
Keith Phillips	Airbus UK	Apologies
Peter Milligan	BINDT	Attending* ¹
Phil Berkley	Agusta Westland	Apologies
Stan Gane	Honeywell	Attending* ¹
Ted Blacklay	CAA	Attending
Keith Griffiths	RR GTS	Attending* ¹

The quorum for a meeting shall be not less than one half of the current voting members (which number NINE - see [current list](#)), and SIX full members' representatives *¹ attended..

ANNEX B: ACTIONS AGREED AT THE 34TH MEETING

Ref	Actions brought forward	Remarks
2011/23	GMcC, JRT and CT to draft an industry standard for ET of Aerospace Products that would suffice for use in open book specific exams as well as for use in question and training development.	Carried Forward (CF) to next meeting (awaiting a first draft from GMcC). New action: BS to provide draft NADCAP ET audit checklist. Action completed 2011-12-05.
2011/42	Sub-group to define terms for OA, IA and ATO, etc., and draft NAndtB/12 rev for comment and approval	CF: JB, CT, PJM and JRT to agree draft revised NAndtB/12, including actions 2011/45 and 2011/59, for circulation for comment before the 35 th meeting. Action completed.
2011/43	Request that TEG compile an OA examiner checklist for use when designing/preparing exams for consideration by the Board at its next meeting	CF: CT/DG (Carried Forward)
2011/45	PJM to ensure that the following is reflected in relevant requirements: The Board will recognise only those ATO with certificated QMS (to ISO 9001 or BINDT recognised equivalent). OA/IA must operate a quality management system, but need not have a certificated QMS.	This will be incorporated within the proposed NANDTB-12 (see action 2011/42). Action completed.
2011/47	PCN received a query: "I've just attended an 80 hour IRT course and in the process of building up my hours for level 2. What I need to know is how can I achieve the next step to level 3? When are PCN (aero) / NANDTB going to bring this qualification on board?"	Secretary to update FAQ and respond with info on PCN development, suggesting SNT-TC-1A or EN 4179 qualification in the interim. Action completed.
2011/48	Publicise the agreed UK NAndtB policy on recognition of overseas PCN aerospace AQB and BINDT accredited OA and IA	CF: JRT Announce policy on Board's website; JB to include in NDT News summary report; PJM to feed into BINDT Aero Group. Action completed.
2011/51	Update NANDTB documents on website	JRT. Action completed.
2011/56	Make audit schedules and reports available to the Board members, and the CAA and MAA, via a secure access area of the Board's website.	PJM. Action completed.
2011/59	NANDTB/12 revision sub group to capture the discussed detail in the revision, as well as the criteria decided at the previous meeting: <i>"the Board agreed to recognise only those ATO with certificated QMS to ISO 9001 or BINDT recognised equivalent, such as part 21/145 approval"</i> . Include definitions of terms for OA, IA and ATO, etc.	Sub-group meetings delayed (see action 2011/42). Action completed.
2011/61	Propose alternative dispensations in terms of UK qualifications that might be considered equivalent to those presently listed in EN 4179.	CF: sub-group comprising BS, DG, CS/CW (35th Agenda)
2011/62	Secretary to progress the formalities of Flybe membership of the Board.	JRT. Action completed.
2011/63	Systematically review and, where appropriate, revise specified NAndtB documents for distribution in advance of the next meeting, and for approval at that meeting.	Board members' representatives identified in minute 4b. Action completed (see 35th agenda).
2011/64	Request NAndtB Micro-site presentation from DJG as soon as preliminary model is available.	JRT. Action completed.
2011/65	Discuss with DJG on how we can best interpret and use the NAndtB website data, and perhaps provide a glossary of terms.	JRT. Action completed.
2011/66	The Board concluded that filmless RT is not a different method; It merely records and presents test data in a different medium. This conclusion is to be communicated by BS to the enquirer.	BS Action Completed
2011/67	Update FAQ file on website	JRT. Action completed.

ANNEX C - Summary of the [Vienna Agreement](#) (provided in order to show how an EN can be adopted as an ISO standard)

The main objective of the Vienna Agreement is to provide a framework for the optimal use of resources available for standardization work, and to provide a mechanism for information exchange between ISO and CEN to increase transparency of work ongoing in CEN to ISO members.

The Agreement provides a mechanism by which ISO committees can request that work being carried out within CEN be made available for voting and comment by all ISO member bodies at the enquiry and formal approval stages. This allows non-European ISO members to influence the content of European Standards and where appropriate to approve those standards as International Standards.

Note: all EN ISO standards, irrespective of which organization originally lead the development of the standard, are revised under ISO lead!