

c/o The British Institute of NDT  
1 Spencer Parade, Northampton  
NN1 5AA, United Kingdom  
Tel: +44(0)1604-259-056  
Fax: +44(0)1604-231-489  
E-mail: john.thompson@bindt.org



## CONFIRMED MINUTES OF THE 32<sup>nd</sup> MEETING OF THE UK NATIONAL AEROSPACE NDT BOARD

Meeting Date: 7<sup>th</sup> September 2011  
Location: Caparo Testing Technologies, Reigate, Surrey

**NANDTB/2011/M4**

1. Confirmation of the agenda (and any other business)
  - a. The agenda was confirmed with additions for AOB
2. Attendance & apologies for absence
  - a. In attendance  
Jon Biddulph (Chairman), John Thompson (Secretary), Colin Thomas, Stan Gane, Bobby Scott, Clive Worrall, Keith Phillips, Chris Durrant (CDu), Peter Milligan, Ted Blacklay, Chris Dootson (CD), Phil Berkley, Carl Sheppard & Graham McCully.
  - b. Apologies for absence  
David Griffin, John Purcell, Alun Williams & Chris Lawrence.
3. Notes of the last meeting
  - a. The [notes of the 31<sup>st</sup> meeting](#) (16<sup>th</sup> June 2011) were accepted and confirmed as accurate minutes of the meeting.
  - b. The meeting reviewed progress in undertaking actions agreed at the last meeting:

Ref	Agreed action	Remarks
2011/16	<b>Secretary</b> to upload an unprotected PowerPoint file NAndtB/25 for use by Responsible Level 3's.	Passed to BINDT Publications and Media (Corinne) for upload on 2011-06-22
2011/21	<b>Secretary</b> to request that BINDT MQ&E/AP consider the NANDTB recommendation for harmonisation of requirements and assessment frequencies for BINDT Accredited Training Organisations and Outside Agencies.	Action completed 2011-06-22.
2011/23	<b>GMcC, JRT and CT</b> to Draft ET of Aerospace Products application standard.	Action carried forward
2011/27	<b>All members</b> to review EN 4179:2008 and UN NAndtB Advisory notices, and forward to the Secretary by 31 <sup>st</sup> May 2011 their proposals for revision of the EN. The <b>Secretary</b> to provide the resulting proposals to the Chairman for submission to the ANDTBF EN Review WG.	To complete this action, the Secretary will distribute an Excel file for recording comments. Action completed 2011-06-22. EU members to meet in Paris September to agree Euro Strawman.

2011/34	<b>Secretary</b> to use the new electronic logo by default (review the NAndtB/01 control document for use of the correct logo)	Action completed 2011-06-22; All NAndtB documents updated and passed to BINDT Pubs for upload.
2011/35	The Board would prefer it if the BINDT OA accreditation were focussed <i>only</i> on the areas of interest of the Board, namely 'Training and Examinations'. <b>Secretary</b> to convey this message to BINDT CSD.	Action completed 2011-06-22.
2011/36	<b>CDo</b> to send electronic draft of NANDTB/12 to JRT for ballot of Board members.	CDo action completed 2011-06-28; JRT distributed same day with request that members approve or comment. <b>On hold regarding TEG proposal</b>
2011/37	Work was underway to develop an industry standard covering ET of Aerospace Products application standard that would suffice for use in open book specific exams as well as for use in question and training development (see also action 2011/23). <b>Board members</b> requested to submit proposals and / or comments to GMcC.	Action rolled up with 2011/23
2011/38	A <a href="#">PowerPoint file from CDo</a> included an acceptable format for all OA/IA scopes of BINDT accreditation. <b>Secretary</b> to forward with instructions to BINDT CSD.	Action completed 2011-06-22.
2011/39	<b>Secretary</b> to ensure that the survey of OA/IA to establish whether they operated an ISO 9001:2008 QMS is fully completed and documented, and to send the results to the Board Members.	JRT e-mailed request to BINDT CSD 2011-06-22. Completed.
2011/40	The OA checklist Sub Group, having considered the revised OA/IA definitions proposed in NANDTB/12, proposed an alternative solution for managing BINDT accreditation of IA's. The Board was unable to reach consensus agreement on the proposal and therefore reaffirmed previous agreement to accept the revised OA/IA definitions in NANDTB/12 per item 6.a.v. <b>Chairman</b> to draft letter of response to RH.	Action completed 2011-06-22.
2011/41	<b>Secretary</b> to locate questions and answers on TEG issues and add to the FAQ file, then upload it.	Action completed, files for upload passed to BINDT Pubs 2011-06-22.

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

- a. To note status and confirm contact details: change of address - Chris.durrant@messier-bugatti-dowty.com

#### 5. Documents for discussion and/or approval

- a. NANDTB documents listed in [NANDTB/01](#) were up to date and none were due review on a time basis before the next meeting.
- b. The ANDTBF review of EN 4179 was in progress with the objective to develop a European strawman during September/October 2011. JB will represent the UK Board at the forthcoming meeting in Paris and will circulate any subsequent strawman to the UK Board members for information. A new standard is not expected to be published until 2013.

#### 6. TEG matters

- a. The UK Training and Examinations Group (TEC) had written to the chairman of the board with suggestions and proposals intended to create a level playing field for training and qualifying agencies accredited by BINDT under the oversight of the board. CT had summarised the proposals in a PowerPoint file which he presented to the meeting.
- b. The [TEG proposal \(ATO 08 2011\)](#) suggested that the Board:
  - i mandates that all initial NDT method training in satisfaction of PCN Aero and EN 4179 requirements is carried out at a BINDT ATO.

- ii changes the BINDT O/I Agency approval to focus on the provision of EN 4179 examinations only.
  - iii already provides a representative to sit on the BINDT CMC committee which controls PCN examinations.
  - iv to provide a representative to sit on the BINDT MQ&E committee which controls the ATO approval.
  - v invites applicable self employed Level 3's to re-apply for BINDT Outside Agency approval
  - vi publishes the new arrangements for training and examinations under its control.
- c. Following extended discussion the meeting agreed to the proposal and the revision of NAndtB/12 criteria to accommodate the proposal. **Action 2011/42: Secretary** to
- i modify (defining terms indicated below) and distribute NAndtB/12 for comment;
  - ii draft a letter to the CAA for the chairman's signature regarding a GR23 requirement for control of job specific (OTJ) training
  - iii distribute the BINDT ATO checklist with these minutes.
- d. There was some uncertainty regarding terminology, and it was agreed to define the following terms in a revised NAndtB/12
- i general theory training,
  - ii generic specific theoretical and practical training, and
  - iii job specific training.
- e. It was agreed to request that TEG compile an OA examiner checklist for use when designing/preparing examinations for consideration by the Board at its next meeting (**Action 2011/43: CT**).

#### 7. UKNANDTB Website

- a. Development and maintenance. **Action 2011/44: Secretary** to request progress report on development of UK NANDTB micro site.
- b. A [Statistical report](#) for the period June to September was projected and reviewed. This standard agenda item was felt to provide interesting valuable information.

#### 8. Control of Qualifying Agencies (details provided by PJM)

- a. Forthcoming PCN AQB Audits:
  - i SWS of NDT September 21<sup>st</sup>
- b. Forthcoming Outside Agency audits:
  - i SWS of NDT, September 22<sup>nd</sup>
  - ii LI, October 13<sup>th</sup>
  - iii Test NDT, November (date TBD)
- c. Forthcoming Internal Agency audits:
  - i Tri-service school, September 20<sup>th</sup>
- d. Oversight on a random basis is accomplished by NANDTB member observer(s), and Board Members are invited to contact PJM for further information and possible participation.

#### 9. Control of training and examinations

- a. The Board was presented with [questionnaire returns](#) regarding the status of management systems operated by Outside agencies. Following discussion, the Board agreed to recognise only those ATO with certificated QMS (to ISO 9001 or BINDT recognised equivalent). The board agreed that OA/IA must operate a quality management system, but need not have a *certificated* QMS. **Action 2011/45: PJM** to ensure that this is reflected in relevant requirements.
- b. Discussion ensued regarding control of PCN examinations conducted overseas, and MO that employ PCN holders who qualified through AQB based outside the UK and have D1 rating

issued by UK Authority. **Action 2011/46: CAA** to write to the Board expressing any concerns that it may have in these matters.

- c. Results of recent qualifying agency audits (continued approval was proposed and agreed)
  - i OA - Caparo
  - ii OA - NDT Consultants
  - iii IA - Firth Rixson, Derby
  - iv IA - East Lancs Platers
  - v IA - Silcom
  - vi IA - Regal Precision Engineering

10. Any other business

- a. Qualification for IRT under control of UK NANDTB.
  - i An email was received: I have just attended an 80 hour Thermography 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?  
**Action 2011/47: PJM** to refer to the next meeting of the PCN CMC; **JB** to respond to email and **Secretary** to add to FAQ.
  - ii Is the above question also applicable for shearography? PJM indicated that, if PCN is approached, it would be considered.
- b. The Board was presented with a report following the first meeting of the CEN Working Group on Vision acuity for NDT personnel. Andy Bakewell had written:
  - i The draft (equivalent of NANDTB 24) was discussed and one of the issues that was discussed was light levels and measurement. We did some practical research (slightly unscientific but easily repeatable and very informative) that showed the difference between 200 Lux, 500 Lux and 1000 Lux was approximately one line on the chart. Even without that the international feeling of the experts was that the existing requirement is "Too open" and should be tightened up.
  - ii If and when an EN ISO is published it will almost certainly require measurement using a calibrated meter and a tighter range probably 350 to 650 Lux. There is even a proposal that the colour temperature of the white light should be mentioned since this too will have an effect although I do not think this will end up as anything other than educational assistance at this time.
  - iii It would be a shame to reduce the requirements now in UK NANDTB then find the published international standard requires much tighter control – and again I must emphasise that the requirement is there because it makes a difference.
- c. An article in NDT News on Methods and Techniques was noted and discussed. Members are invited to read (and comment if appropriate) on this article, which is available in NDT News at [bindt.org](http://bindt.org).

11. Date and location of the 33<sup>rd</sup> meeting of the UK NAndTB:

- a. 13<sup>th</sup> October 2011 at MT&D's London office

## Annex A: Agreed actions

Ref	Agreed action	Remarks
2011/23	<p>Work was underway to develop an industry standard covering ET of Aerospace Products application standard that would suffice for use in open book specific exams as well as for use in question and training development (see also action 2011/23).</p> <p><b>Board members</b> requested to submit proposals and / or comments to GMcC</p> <p><b>GMcC, JRT and CT</b> to Draft ET of Aerospace Products application standard.</p>	<p><a href="#">Email of 2011-09-22 requesting CT report</a></p>
2011/42	<p><b>Secretary</b> to</p> <ol style="list-style-type: none"> <li>modify (defining terms for OA, IA and ATO, etc) and distribute draft NAndTB/12 for comment;</li> <li>draft a letter to the CAA for the chairman's signature regarding a <a href="#">GR23</a> requirement for control of job specific (OTJ) training</li> <li>distribute the BINDT ATO checklist with these minutes.</li> </ol>	<p>Draft distributed to CT, JB &amp; PJM 2011-09-08</p> <p>Completed 2011-09-08</p> <p>Completed 2011-09-08</p>
2011/43	<p><b>CT</b> to request that TEG compile an OA examiner checklist for use when designing/preparing examinations for consideration by the Board at its next meeting</p>	<p><a href="#">Email reminder sent 2011-10-12</a></p>
2011/44	<p><b>Secretary</b> to request progress report on development of UK NANDTB micro site.</p>	<p><a href="#">Email request to DJG 2011-09-22. Followed up 2011-10-12</a></p>
2011/45	<p><b>PJM</b> 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 <i>certificated</i> QMS.</p>	<p><a href="#">Email reminder sent 2011-10-12</a></p>
2011/46	<p><b>CAA</b> to write to the Board concerning control of PCN examinations conducted overseas, and the effect upon Maintenance Organisations that have D1 rating issued by UK Authority, and which employ PCN holders qualified through AQB based outside the UK.</p>	<p><a href="#">Email reminder sent 2011-10-12</a></p>
2011/47	<p><b>PJM</b> to refer to the next meeting of the PCN CMC; <b>JB</b> to respond to email and <b>Secretary</b> to add to FAQ: I have just attended an 80 hour Thermography 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?</p>	<p><a href="#">Email reminder sent 2011-10-12</a></p>