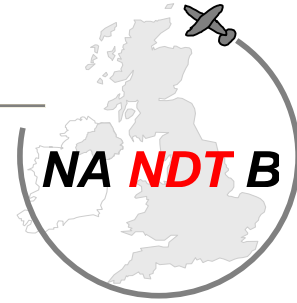


# UK National Aerospace **NDT** Board



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## CONFIRMED MINUTES OF THE NINTH MEETING OF THE UK NATIONAL AEROSPACE NDT BOARD

Meeting Date: Wednesday 23<sup>rd</sup> August 2006

Time: 09h30

Location: Rolls Royce Aero Engines, Derby

**NANDTB/06/M3**

1. The agenda was confirmed.
2. The meeting was attended by:  
Jon Biddulph (RR – Chair), Graham McCully (MML – co-opted), John Hewitt (Airbus UK), Trevor Hiscox (Airbus UK), Ian Chapman (CAA), John Thompson (Sec), Eric McIlroy (Bombardier), Chris Dootson (BAE), Keith Phillips (Messier Dowty), Phil Berkley (Westland), Bobby Scott (Bombardier), and Roger Hogarth (BA).
3. Apologies for absence were recorded for Stan Gane and Mark Barker.
4. The [Notes of the last meeting](#) (BAE Warton) were accepted without amendment, and would be posted on the Board's web pages as confirmed minutes.
5. Actions and matters arising from the last meeting (not covered by the agenda)

Ref	Action	Assignment	Status
08/06	WG comprised of JB, CD and JRT to discuss the pros and cons of establishing some form of formal liaison group for EU NANDTB, and what might be developed for tabling prior to the first forum	Chairman, Mr. Dootson and Secretary	Action superseded
09/06	Post confirmed minutes of 22 <sup>nd</sup> February 2006 meeting on NANDTB website.	Secretary	Action discharged
10/06	<p>JB reported his meeting with SJL regarding membership and outstanding issues. A Training &amp; Examination Group (TEG) meeting convened for the purpose had only three attendees, but it had decided to seek two membership places on the Board. JB had advised them that the Board had sufficient representation at present.</p> <p>SJL had raised the question of PCN Aero compliance with EN 4179. JB pointed out that the Board had provided the ability for employers to use the PCN aero scheme for <i>qualifying</i> their employees to the 4179 standard.</p> <p>SJL reported that he had sought views of TEG members with respect to NANDTB policy and business, but had received only minimal responses. It was concluded therefore that there were no major issues from the Aero NDT Training industry.</p> <p>JB asked the Board members present whether representation from the NDT training industry should be co-opted, pointing out that this would require a democratically elected representative, and genuine two way reporting. There was general agreement that the Board was willing to co-opt a representative nominated by TEG, provided that it was agreed by that the nominated individual was democratically selected and truly representative.</p>		Action discharged
11/06	Include an agenda item for review of NANDTB/02, 03, 04 and 05 on	Secretary	Action

Ref	Action	Assignment	Status
	23 <sup>rd</sup> August 2006		discharged
12/06	(i) Draft UK NANDTB policy statement on audit and approval of internal qualification systems, including a compliance audit of written practices, then (ii) circulate the draft to Chairman and Vice Chairman for agreement, and include an agenda item for 23 <sup>rd</sup> August 2006 meeting.	Secretary	Action carried over
13/06	Comments on CAIP 4-10 to be sent to John Hewitt by 24 <sup>th</sup> May 2006 for transmission as Board comments to CAA by 31 <sup>st</sup> May 2006.	All Members	Action discharged
14/06	Contact BINDT Accredited Outside Agencies, requesting submission of specific examination questions related to common specifications for each NDT method, and table responses at 23 <sup>rd</sup> August 2006 meeting.	Secretary	Action carried over
15/06	Replace specific papers reviewed by members, and circulate new papers to the reviewers for comment.	Secretary	Action carried over
16/06	Circulate the present PCN examination syllabuses, which are used to determine which questions are specific and which general, for review and comment.	Secretary and members.	Action discharged
17/06	Confirm availability to witness the OA/AQB audit of Lavender international on 31 <sup>st</sup> October 2006. JH agreed to stand in as reserve in the event of SG's lack of availability.	Mr. Gane	Action carried over
18/06	Update and send to Stainless Steel World News the press release(s) from UK NANDTB formative period.	Secretary	Action discharged
19/06	Develop Level 3 PCN General Papers comprising 40 questions as required by EN 4179 : 2005.	Secretary	Action discharged
20/06	Convey agreed responses to originator of questions.	Mr. McCully	Action discharged
21/06	Include "Audit of internal training and qualification systems" on the agenda for the 23 August 2006 meeting.	Secretary	Action discharged
22/06	Draft terms of reference for co-opted TEG representative	Chairman	New action

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

- a. The Board agreed to the Chairman drafting appropriate terms of reference and discussing further with Mr. Lavender the co-option of a representative of the TEG.

**Action 22/06:** Chairman to draft terms of reference for a TEG representative; The Secretary was charged with writing to TEG to invite them to nominate a representative for co-option for 12 months (subject to review).

- b. Mr. Hogarth was welcomed to his first meeting as representative of BA.
- c. Mr. Williams had been a founder member and an excellent contributor to the formation and work of the Board. It was agreed that the Board would formally recognise and thank Brian for his contribution.

**Action 23/06:** Secretary to draft a suitable certificate for framing, and Chairman to write a formal letter of thanks.

- d. Appointment of Chairman and Vice Chairman
- i. JB was willing to carry on or to stand aside if somebody else wished to take on the job. EM proposed JB for re-election. TH seconded. JB was re-elected Chairman for a further two years.
- ii. JH was willing to stand for Vice Chairman. KP proposed and EM seconded. JH was elected VC for two years.

**Action 24/06:** Secretary to update membership list and request re-nomination of remaining members' representatives.

7. NANDTB documents
  - a. The Board reviewed NANDTB 02, 03, 04 and 05, and changes were made to 02 and 03.
  - b. It was agreed to publish an annual report. Action: Secretary to draft for Chair and Vice Chair review and comment.
8. External regulations, standards or specifications
  - a. Airworthiness requirements (CAIP 4-10) for part 21 organisations. A status [report from CAA](#) was reviewed and discussed. The Board regretted that the requirement for part 145 and 21 organisations were different, and held the view that, despite the differences in the EASA regulations, there could be closer harmonisation between the UK implementation documents.
  - b. Draft revision of [EN 4179/NAS 410](#) – the Chairman gave a brief overview of the status of the draft, and it was agreed that all Board members be provided with a copy.

**Action 25/06:** Secretary to circulate strawman draft to all Board members for review and comment (comments to be addressed to JB).

9. Prime Contractor Specifications.
  - a. The Secretary reported the background to this item, stating that Outside Agencies had highlighted the number, diversity and rate of changes in prime contractor's specifications as a problem for them. The Board recognised that this could be seen as a problem, but it was pointed out that they each had arrangements for publicising their specifications, and for flow-down through suppliers to outside agencies, whose contract review of the client's needs would result in the provision of the relevant edition of the prime's specification(s).
  - b. The Secretary offered to provide a centralised specification distribution service to outside agencies (with the co-operation of Board members), but this was seen as problematic in itself, and unnecessary given that existing processes were in place and effective.

#### 10. Interpretations

- a. What is supervision, in the context of uncertified NDT trainees?
  - i. There was much discussion and debate over this matter. The board also considered an interpretation on the same subject issued by the AIA/NAS410 committee (copy distributed with minutes) to the effect that a trainee cannot independently conduct tests (process certifiable hardware). Training must be under the guidance of a level 2 or 3 certified person, but did not need to be constant.
  - ii. The Board discussed the issues, and agreed that trainees should at all times be working under the guidance of Level 2 or 3 certified personnel. This implies a responsibility to directly observe all stages of a test conducted by a trainee *if that test is to result in certification of the inspected part* by the certified supervisor.
  - iii. With the publication of the unconfirmed minutes on the Board's web pages, it was not considered necessary to publish this interpretation in any other media.
  - iv. It was further agreed that, for each trainee under supervision, there should be a plan regarding progression to certification.

#### 11. Control of Outside Agencies

- a. The Board reviewed the OA Assessment Schedule, noting that a witnessed assessment would take place at Lavender International on 31<sup>st</sup> October 2006. However, following news that Mr. Gane's external activities may be curtailed, it was unclear whether he would be available to undertake this action.

**Action 26/06:** The Secretary was asked to get confirmation from Mr. Gane, noting that Mr. Hewitt would stand in if necessary.

- b. The Secretary reported on assessments completed since last meeting, and the Board reviewed the assessment reports presented. There had been no new applications received since last meeting
12. Audit of internal training and qualification systems
- a. The Secretary reported that all necessary specifications, procedures, and documents were in place to support the assessment and accreditation on internal EN 4179 qualification systems.
13. Control of PCN examinations
- a. The review/approval of PCN examination papers was an ongoing action.
  - b. Witnessed audit of a PCN Aerospace AQB. The reassessment of the SWS of NDT was due on 7<sup>th</sup> September 2006, and the Board was invited to appoint a witness.
- Action 27/06:** Secretary to discuss witnessed assessment of an aerospace AQB with appropriate Board member(s)
14. Liaison and contact with other NANDTB
- a. The EU Forum of ANDTBs was arranged at 9<sup>th</sup> ECNDT (Berlin, Friday 29<sup>th</sup> September 2006 @ 14:00). Mr. Biddulph would represent the UK Board (Mr. Thompson would be attending as an EFNDT representative and, given the agreement of the forum, would chair this particular meeting.
  - b. The Board noted that the agenda was likely to be limited to discussion on the future arrangements for this forum.
15. Any other business
- a. Use of Level 1 'Limited' personnel to EN4179:2005 (GMcC). The Board reviewed the requirements of the standard, and of GR23, and agreed that the use of L1 limited, given that 4179 stated "*case-by-case justification for using Level 1 "Limited", the prime contractor's approval, the training and experience hours, the number of examination questions, the specific NDT test to be performed, and the specific hardware to be tested shall be documented in the employee's records*" was satisfactory provided that the technique was genuinely a go/no go type.
- Action 28/06:** GM to write to CAA requesting review of GR23 to enable the foregoing.
- b. Implementation of new technology (Eric McIlroy). A presentation was made to invite the Board to discuss the initial training and experience requirements for infrared thermography Level 2 and 3 personnel undertaking production inspections.
- Action 29/06:** Further discussions to take place between JB, EM and SWS of NDT before a definitive proposal was brought back to the Board.
- c. GTC action 06/04 - the UK NANDTB may wish to consider the DRT qualification for use in the aerospace sector.
- Action 30/06:** Secretary to circulate DRT qualification document with the unconfirmed minutes.
- d. Use of PCN ISO 20807 Limited Certification in aerospace sector.
- Action 31/06:** Secretary to circulate PCN ISO 20807 document with the unconfirmed minutes.
16. Date and location of the tenth meeting of the UK NAndtB
- a. 23<sup>rd</sup> November 2006, Airbus UK, Filton.

## Action list

Ref	Action	Assignment	Action by / Status
22/06a	Draft terms of reference for a TEG representative	Chairman	Action carried forward
22/06b	Write to TEG, enclosing provided terms of reference, inviting them to nominate a representative for co-option by the Board for a 12 month period (subject to review at the end of this period)	Secretary	<b>Action discharged</b>
23/06	Draft a suitable certificate for framing, and write a formal letter of thanks to Mr. Williams.	Secretary / Chairman	2006-09-20. Draft certificate sent to JB by email dated 2006-10-26, and circulated to Board. <b>Action discharged</b>
24/06	Update documents and membership lists and request re-nomination of remaining members' representatives.	Secretary	2006-09-20. request for member's representatives to be re-nominated sent by email 2006-10-26. <b>Action discharged</b>
25/06	Circulate strawman EN 4179 /NAS-410 draft to all Board members for review and comment (comments to be addressed to JB).	Secretary / All	2006-09-10. <b>Action discharged</b> 2006-08-28
26/06	Obtain confirmation from Mr. Gane, noting that Mr. Hewitt would stand in if necessary, regarding the 31 October 2006 witnessed assessment of Lavender International Outside Agency.	Secretary	2006-09-10 (overtaken by circumstances; Mr Hewitt witnessed the reassessment of SWS of NDT). <b>Action discharged</b>
27/06	Discuss witnessed assessment of an aerospace AQB with appropriate Board member(s)	Secretary	2006-09-10 (see above). <b>Action discharged</b>
28/06	Write to CAA requesting review of GR23 to enable: <i>A case-by-case justification for using Level 1 "Limited" in go / no go testing situations, given the prime contractor's approval, the training and experience hours, the number of examination questions, the specific NDT test to be performed, and the specific hardware to be tested is documented in the employee's records".</i>	Mr. McCully	2006-09-20. <b>Action discharged</b>
29/06	Further discussions on initial training and experience requirements for Level 2 and 3 personnel undertaking infrared thermography in production inspections to take place between JB, EM and SWS of NDT before a definitive proposal is brought back to the Board.	Chairman / Mr. McIlroy	2006-10-20. <b>Action discharged</b>
30/06	Circulate PCN DRT qualification document with the unconfirmed minutes.	Secretary	2006-09-10. <b>Action discharged</b> 2006-08-28
31/06	Circulate PCN ISO 20807 document with the unconfirmed minutes.	Secretary	2006-09-10. <b>Action discharged</b> 2006-08-28