



INTERNATIONAL COMMITTEE FOR  
NON DESTRUCTIVE TESTING

*The World Organisation for NDT*

**Minutes of a meeting of  
ICNDT Working Group 1 Qualification and Certification**

**Monday, 6 October 2014 (DRAFT)  
11<sup>th</sup> European Conference on NDT, Prague**

**Participants - Members**

|                         |                                       |
|-------------------------|---------------------------------------|
| Alexander Mullin        | (Chair)                               |
| Sajeesh Kumar Babu      |                                       |
| David Barnett           |                                       |
| Darcy Corcoran          | (Proxy for John Zirnhelt)             |
| Roger Engelbart         |                                       |
| Patrick Fallouey        |                                       |
| Cemil Hakan Gur         |                                       |
| Harold Jansen           | (Proxy for Jim Guild)                 |
| Jingyuan Ji             |                                       |
| Kyung-Cho Kim           |                                       |
| Norikazu Ooka           |                                       |
| Vitali Radko            |                                       |
| Rodolfo Rodríguez       |                                       |
| João Rufino Teles Filho |                                       |
| Nicole Scutt            | (Member and Proxy for Peter Milligan) |
| Gerald Idinger          | (Proxy for Gerhard Aufricht)          |

**Observers**

|                      |                     |
|----------------------|---------------------|
| Mike Farley          | (ICNDT Chairman)    |
| Betsy Blazar         | (ASNT)              |
| Patrick Brisset      | (IAEA)              |
| Terry Clausing       | (ASNT)              |
| David Gilbert        | (ICNDT Secretariat) |
| Douglas Marshall     | (ICNDT IEC)         |
| Svitlana Priannikova | (Ukraine)           |
| Robin Shipp          | (ICEC Secretary)    |

**Apologies**

|                |                        |
|----------------|------------------------|
| Jim Guild      | (Proxy Harold Jansen)  |
| Peter Milligan | (Proxy Nicole Scutt)   |
| John Zirnhelt  | (Proxy Darcy Corcoran) |

## 1. Welcome and apologies

The Chairman opened the meeting and welcomed all members and observers. Introductions were given around the table.

The Chairman declared that a quorum was achieved.

## 2. Approval of Agenda

The Chairman stated that the Agenda had been circulated prior to the meeting and no comments or suggestions for addition had been received. He invited further suggestions and Roger Englebart wished to raise one item under AOB. This was agreed and the Agenda was approved.

## 3. Approval of Minutes of the previous meeting

The minutes of the meeting held on 20th November 2013 in Mumbai, India, had been circulated.

Comments were received from Jingyuan Ji and Mike Farley. The minutes were approved with proposed amendments.

Actions arising:

| Action Ref. No.   | Desc.   | WHO        | STATUS/COMPLETE BY            |
|-------------------|---|------------|-------------------------------|
| WG1/2012-11-19/.. |   |            |                               |
| 1                 | Review Membership principles  | AM         | Complete                      |
| 2                 | Consider participation in NDE Forum at ASME PVP, July 2013, Paris                         | All        | Complete                      |
| 3                 | Conduct gap analysis – TR 25107 vs. CP106.  | SKB        | Complete                      |
| 4                 | Circulate information on new standard covering new techniques                             | PF         | Ongoing                       |
| 5                 | Submit updates to Guidelines to D Gilbert   | All        | Complete                      |
| 6                 | Review and revise OP18 (ICEC) and WG1 ToR   | AM/JRT/JMF | Complete. Now approved by PGP |
| 7                 | Compile 'top 20' EN ISO 9712 statements and circulate to CBs for info on interpretation.  | AM         | Complete, see agenda item 6   |
| 8                 | Consider WG to look at S K Babu's draft Guideline for Administering Practical Examination | All        | Complete, see agenda item 7   |
| 9                 | Commence liaison with ISO TC108 SC5 w.r.t CM in Guidelines                                | AM/JMF     | Complete                      |
| 10                | Produce new chapter on ISO/IEC 17024: 2012 for Guidelines                                 | PF/JRT/AM  | Complete                      |

#### 4. WG1 membership

The Chairman welcomed the three new members: Roger Engelbart, Cemil Hakan Gur and Jinguan Ji. The Chairman suggested that the current level of membership was now satisfactory.

| Action Ref. No.<br>WG1/2013-11-20/.. | Desc.                                | WHO               | STATUS/COMPLETE BY |
|--------------------------------------|--------------------------------------|-------------------|--------------------|
| 1                                    | Propose representative for committee | ChSNDT<br>TURKNDT | Complete           |

#### 5. Action Plan

The Chairman proceeded to go through the Action Plan step-by-step.

Referring to the Action Plan:

X1 (this action plan) is an ongoing task without deadlines.

X2 broadening terms of reference: it was agreed to delete this task

X3 (reviewing and refreshing membership) is an ongoing task. It was agreed that the current level of membership is satisfactory.

A1. Lines of communication with regional Groupings

Reports were received from the Regional Groups/Federations and presented during the meeting by S K Babu (Asia Pacific), João Rufino Teles Filho (Pan America), R Rodriguez (EFNDT), Harold Jansen (Africa).

A2. Liaison:

a) ISO TC135 SC7 (Revision of training guidelines). Mike Farley had offered to draft a letter to the ISO committee for approval by the group before sending.

| Action Ref. No.<br>WG1/2013-11-20/.. | Desc.  | WHO | STATUS/COMPLETE BY      |
|--------------------------------------|--|-----|-------------------------|
| 2                                    | Draft letter to ISO TC135 SC7 recommending how to revise TR25107 | JMF | Done. See agenda item 9 |

b) IAF. John Zirnhelt had sent apologies but no report. Darcy Corcoran (his proxy) had not been briefed on this. Ongoing – information will be requested.

| New action Ref. No.<br>WG1/2014-10-06/.. | Desc.                                 | WHO | STATUS/COMPLETE BY |
|--|---------------------------------------|-----|--------------------|
| 1  | Request report from JZ on IAF liaison | AM  | Ongoing            |

c) ISO/CASCO Need new representative.

| Action Ref. No.   | Desc.   | WHO | STATUS/COMPLETE BY   |
|-------------------|---|-----|--|
| WG1/2013-11-20/.. |   |     |  |
| 3                 | Request feedback from JRT re: ISO/CASCO WG30. | JMF | Action completed: John Thompson has retired from this committee. |

It was agreed that liaison with this committee is important. Sajeesh Babu has volunteered to serve.

| New action Ref. No. | Desc.                                 | WHO    | STATUS/COMPLETE BY |
|---------------------|---------------------------------------|--------|--------------------|
| WG1/2014-10-06/..   |                                       |        |                    |
| 2                   | Offer SKB as member of ISO/CASCO WG30 | AM/SKB | Ongoing            |

d) ASME and similar bodies on NDT personnel qualification matters. Patrick Fallouey is retiring from ASME. Proposed to ask ASNT representative to provide the liaison with ASME and ask Patrick Fallouey to continue.

| New action Ref. No. | Desc.  | WHO    | STATUS/COMPLETE BY |
|---------------------|--|--------|--------------------|
| WG1/2014-10-06/..   |  |        |                    |
| 3                   | Propose suitable nominees to maintain liaison status with ASME | PF, RE | End 2014           |

e) IAEA. Ongoing. As noted at the previous meeting, Patrick Brisset attends WG1 as observer.

A4. Directory: The directory of PCBs is now on the website and is referenced in the new edition of the ICNDT Guide. David is liaising with SKB to ensure that it is updated.

| New action Ref. No. | Desc.  | WHO | STATUS/COMPLETE BY                             |
|---------------------|--|-----|--|
| WG1/2014-10-06/..   |  |     |  |
| 4                   | Investigate facility for online updating of directory. | DJG | Ongoing until system for updating is in place. |

A5. Guidance for developing countries: Action complete. Now published as Appendix 9 in new edition of ICNDT Guide.

A6. Forums and Workshops: Ongoing. Included in programme for Prague conference.

A7. Website: On-going development – D Gilbert/A Mullin. WG1 members were reminded that they are responsible for forwarding matters of interest through WG1 chairman to David Gilbert

A8. Application of EN ISO 9712: Discussed under agenda item 6.

A9. Gap analysis: Awaiting revision of TR 25107. See agenda item 9.

A10. ASNT: Ongoing. Next meeting is going to be at ASNT Fall Conference in Charleston, end of October 2014. Note that this task becomes easier now that there is an ASNT member of the committee.

B1. New methods: Discussed under agenda item 8.

B2. ICNDT Guide: Discussed under agenda item 11.

B3. Practical exams: Discussed under agenda item 7.

B4. EQB: Discussed under agenda item 12.

The Chairman asked for further comments/ suggestion on the Plan by the end of October. He will then update it.

| <b>New action Ref. No.</b> | <b>Desc.</b>   | <b>WHO</b> | <b>STATUS/COMPLETE BY</b> |
|----------------------------|--|------------|---------------------------|
| <b>WG1/2014-10-06/..</b>   |  |            |                           |
| 5                          | Send comments/ suggestion on the Action Plan by the end of October | members    | Ongoing.                  |

## **6. Recommendation for implementation of ISO 9712:2012**

A revised summary of members' comments had been circulated by the Chairman before the meeting. There was extensive and lengthy discussion on this topic. The key points were:

- Is this intended as recommendations for the next revision of ISO 9712? Not specifically but it will provide a basis for comments.
- What will the final format be? This is report of WG1, to be published on website – not a formal recommendation from ICNDT.
- There was extensive discussion on individual issues. These were captured by the Chairman and will be incorporated into a final version.
- It was agreed that the document will be finalised by the end of the year.

| <b>Action Ref. No.</b>   | <b>Desc.</b>                                | <b>WHO</b> | <b>COMPLETE BY</b> |
|--------------------------|---|------------|--------------------|
| <b>WG1/2013-11-20/..</b> |   |            |                    |
| 5                        | Publish review of ISO 9712: 2012 on website | AM/DJG     | Complete           |

| Action Ref. No.<br>WG1/2013-11-20/.. | Desc.  | WHO | COMPLETE BY |
|--------------------------------------|--|-----|-------------|
| 6                                    | Submit final comments on ISO 9712 interpretation to AM by end-March 2014 | All | Complete    |

| New action Ref. No.<br>WG1/2014-10-06/.. | Desc.   | WHO | STATUS/COMPLETE BY |
|--|---|-----|--------------------|
| 6  | Prepare WG1 report on interpretation of ISO 9712:2012 | AM  | End 2014           |

## 7. Guideline for administering practical examinations

| Action Ref. No.<br>WG1/2013-11-20/.. | Desc.  | WHO | COMPLETE BY |
|--------------------------------------|--|-----|-------------|
| 7                                    | Submit final comments on guidelines for administering practical exams to SKB by end-March 2014 | All | Complete    |

| Action Ref. No.<br>WG1/2013-11-20/.. | Desc.  | WHO | COMPLETE BY                  |
|--------------------------------------|--|-----|------------------------------|
| 8                                    | Add grading procedure proposal to 9712 review document | VR  | Completed during the meeting |

Version 5 of this document had been circulated before the meeting, taking account of comments received. SKB summarised the comments received and actions taken.

VR suggested that the tolerances quoted for assessing results were not tight enough.

Following discussion, this proposal was challenged and the Chairman suggested collecting more data from examiners. This is the only point holding up this document.

| New action Ref. No.<br>WG1/2014-10-06/.. | Desc.   | WHO | STATUS/COMPLETE BY |
|--|---|-----|--------------------|
| 7  | Collect information from CB's on grading of practical exams | SKB | End 2014           |

**8. Process for qualification and certification of personnel when ‘introducing new NDT methods and techniques’**

Note that the scope of ISO 9712:2012 covers “proficiency in one or more of the following methods:

- a) acoustic emission testing;
- b) eddy current testing;
- c) infrared thermographic testing;
- d) leak testing (hydraulic pressure tests excluded);
- e) magnetic testing;
- f) penetrant testing;
- g) radiographic testing;
- h) strain gauge testing;
- i) ultrasonic testing;
- j) visual testing (direct unaided visual tests and visual tests carried out during the application of another NDT method are excluded).”

But the scope also states that the Standard “can also apply to other NDT methods or to new techniques within an established NDT method, provided a comprehensive scheme of certification exists and the method or technique is covered by International, regional or national standards or the new NDT method or technique has been demonstrated to be effective to the satisfaction of the certification body.”

Main points of the discussion were:

- Should we take into account only methods a to j? This would rule out phased array or TOFD (unless they could be considered under the general heading of “ultrasonic testing”);
- The Chairman proposed to set up a process for compliance assessment of new NDT methods;
- These would need to be covered by standards;
- The method would need to be demonstrated to be effective to satisfaction of WG1;
- It was agreed that the action plan would need to be modified to accommodate this;
- It was noted that the application from Energodiagnostika for a PCB CA for the MMM method will need to be delayed until this is resolved;
- Do we have an audit capability (expert personnel) for new methods?

The Chairman invited proposals.

| <b>New action Ref. No.</b><br><b>WG1/2014-10-06/..</b> | <b>Desc.</b>   | <b>WHO</b> | <b>STATUS/COMPLETE BY</b> |
|--|--|------------|---------------------------|
| 8  | Modify action plan to accommodate process for qualification and certification of personnel when ‘introducing new NDT methods and techniques’ | AM         | End November 2014         |

## 9. Revision of TR 25107 Guidelines for NDT training syllabuses

It was noted that a revision is in hand, with a draft imminent. Sharon Bond is the contact. PF suggested that the aim for training times will be to work by general topics, with details expressed as a percentage of the general topics.

## 10. IAEA developments on qualification and certification of NDT personnel

Patrick Brisset presented a report on the activities of ICNDT. He noted that TECDOC 628 was in process of revision and that guidelines for digital radiography were to be produced.

## 11. ICNDT Guide

| Action Ref. No.   | Desc.  | WHO    | COMPLETE BY |
|-------------------|--|--------|-------------|
| WG1/2013-11-20/.. |  |        |             |
| 10                | Issue invitations for updating sections of ICNDT Guide | AM/JMF | Complete    |

JMF summarised the situation:

- The October 2014 version has been produced. Following a delay in delivery, printed copies should be available on the ICNDT stand by Wednesday;
- Major changes were highlighted:
  - Recommendations to certification bodies seeking cooperation
  - Encourage bodies operating outside home country to cooperate with national societies – signed agreement. ICNDT will mediate.
  - Guidance for developing countries
  - Recommendation to national standards bodies: urged to apply ISO 9712 fully.
  - ICNDT MRA
  - ASME position: Change in section V allows use of ISO 9712 – consistent with ICNDT advice. Hoped that applications sections of Code will dispense with own requirements. Reminder about employer's responsibilities.
  - Appendix on certification schemes compliant with ISO 9712.
  - Appendix on MRA, PCB CA and EQB
  - ISO 9712 implementation – spreadsheet on web

## 12. Report on the work of the ICEC

Dr Shipp reported on the work of the ICEC. Key points were:

- MRA
  - Belgium (BANT) are being encouraged to sign Schedule 1 (Note: this was done by email shortly after this meeting)
  - Netherlands (SKO) are close to meeting requirement for Schedule 2 registration. The only remaining issue is confirmation that they are accredited to the 2012 issue of ISO 9712.
  - OP19 is in urgent need of revision (Note: this was emphasised by discussions at PGP/GA later in the week)
- PCB CA
  - Audit arranged for ABENDI (Brazil) in November



- Audits required for ChSNDT (China), SAIW (South Africa) and a possible application from Malaysia. Details of the audits may depend on decisions made following revision of OP19.
- EQB
  - In process of providing EQB to Argentina free of charge in view of their work done on translation into Spanish
  - SAIW have offered to provide additional questions. RS will draft a procedure for incorporating new questions.

| Action Ref. No.   | Desc.                                    | WHO | COMPLETE BY |
|-------------------|--|-----|-------------|
| WG1/2013-11-20/.. |  |     |             |
| 9                 | Refer to ICEC sec regarding EQB updating | AM  | Complete    |

### 13. Any other business

Roger Engelbart emphasised that continuity of work and relationships is important to ASNT. He proposed that ASNT membership of WG1 should continue after their Fall Conference with Terry Clausing, the incoming ASNT President and that membership of the President and incoming President should be automatic so that continuity will be maintained even though faces will change. JMF said that this looked like a good proposal but it would need to go through due process.

| New action Ref. No. | Desc.  | WHO | STATUS/COMPLETE BY |
|---------------------|--|-----|--------------------|
| WG1/2014-10-06/..   |  |     |                    |
| 9                   | Propose the suggested membership strategy for ASNT | AM  |                    |

### 14. Date and place of next meeting

The Chairman proposed a meeting in Cartagena, Colombia, during the PANAM conference in August 2015. There was an alternative proposal from Harold Jansen for a meeting in Algeria. It was decided that next WG1 physical meeting will be in Cartagena, Colombia, August 2015. It was emphasised that all efforts should be made to avoid clashes between the various committee meetings.