



Report from the meeting of ISO/TC 23/WG 1, Milking machines held 2004-03-22 - 23

The meeting was held at **the Praktijkonderzoek Veehouderij BV, Divisie Dier-en productieketen, in LELYSTAD, NETHERLANDS**, with 19 persons from Belgium, Denmark, Finland, France, Germany, Italy, Netherlands, Norway, Sweden, UK and USA. Experts from Belgium, Denmark, France and Norway attended as representatives of IDF. For the attendance list see annex A.

Mr Lars Innings chaired the meeting as convenor and Mr Rolf Thesslin prepared these minutes being the WG secretary.

1) Opening of the meeting

The convenor opened the meeting and welcomed all participating experts.

2) Approval of the agenda

The draft agenda in document WG 1 N 45 was approved with the following additions:

- For item 4 to 6 – document ISO/TC 23 N 572, ISO/TC 23/WG 1 N 51 and comments from IDF circulated at the meeting
- For item 7 – document ISO/TC 23/WG 1 N 49, N 49 ADD and N 50

3) Minutes from last meeting

Last meeting had been held 2003-09-10 – 11 and draft minutes from that meeting had been circulated in document ISO/TC 23/WG 1 N 36. No comments or request for correction has been received.

4) Review of CD 3918, Milking machine installations – Vocabulary

Draft in document ISO/TC 23 N 550 had been circulated for review and comment by 2004-03-11. Voting result had been received in document ISO/TC 23 N 572. In addition to that there was also IDF comments circulated at the meeting. The draft was discussed based on received comments and the following were noted:

- Numbering and references will be corrected
- Terms from CD 20966 to be added
- The content for ISO 3918 to be limited to cover the needs for the other three standards.
- "Automatic milking unit" was deleted.
- "Vaccum system" was added.
- As far as possible only one term shall be kept in cases where an alternative has been given.
- 6.7 milking system, need a definition.
- 6.10 receiver, a new definition was accepted.
- "automatic teatcup removal" was added; will also affect 7.4 and 7.5
- 7.1 milk meter definition to be checked with ICAR
- 8.1 bulk milk tank to be checked with EN 13732
- 9.18 effective length of mouthpiece; new definition as presented by Finland in principle accepted but has to be further checked by Esa Manninen and Douglas J Reineman.

Many of the received comments were accepted and the result of the WG 1 discussion can be seen as document ISO/TC 23/WG 1 N 39REV.



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The modified draft shall be circulated to WG 1 experts for a second review and comment. The draft will then be discussed at next meeting to establish the replies to comments in document ISO/TC 23 N 572 and the text for the draft to be approved by ISO/TC 23 for circulation as a DIS.

5) Review of CD 5707, Milking machine installations – Construction and performance

Draft in document ISO/TC 23 N 551 had been circulated for review and comment by 2004-03-11. Voting result had been received in document ISO/TC 23 N 572. In addition to that there was also IDF comments circulated at the meeting. The draft was discussed based on received comments and the following were noted:

- Clause 5 concerning vacuum pumps must be dealt with both concerning attachment and fall off. The following must be covered:
 - 1) With shut off valve
 - one cluster open with shut off (fall off)
 - one cluster open without shut off (attachment)
 - 2) With no shut off valve
 - one liner open (attachment)
 - one cluster open (fall off)
 - 3) Quarter milking
 - one line open (attachment)
 - one line open with shut off (fall off)Lars Innings will modify text to deal with cases listed.
- The possibility to combine 5 and 6 into one clause for "vacuum stability" shall be reviewed.
- References will be corrected as well as conversion mistakes.
- The terminology will be checked for chose of manufacturer, supplier or installer. Preferably it should be expressed as requirements for content in the instruction handbook.
- For 16 Milking units values shall be stated not only for 5 l/min and maximum flow rate but also for 3 l/min.
- Annex A shall be changed to a normative reference but at the same time be limited to conventional machines (not AMI). An addition of a simplified method of calculation was not included.
- US proposal for modification of Annex C was not accepted. Odd Rønningen will come back with a proposal for new text of Annex C. Douglas J Reineman will be back with additional tables.

Many of the received comments were accepted and the result of the WG 1 discussion can be seen as document ISO/TC 23/WG 1 N 40REV.

The modified draft shall be circulated to WG 1 experts for a second review and comment. The draft will then be discussed at next meeting to establish the replies to comments in document ISO/TC 23 N 572 and the text for the draft to be approved by ISO/TC 23 for circulation as a DIS.

6) Review of CD 6690, Milking machine installations – Testing

Draft in document ISO/TC 23 N 552 had been circulated for review and comment by 2004-03-11. Voting result had been received in document ISO/TC 23 N 572. In addition to that there was also IDF comments circulated at the meeting. The draft was discussed based on received comments and the following were noted:

- References will be corrected as well as conversion mistakes.
- Text from Annex F will be moved back to clause 4.
- 5.12.2 and 5.12.3 were deleted.
- 5.6 Regulation loss; Germany will be back with a modified text.
- 7.3 only the more correct formula was kept
- A new clause was added to Annex A on measuring vacuum levels in the cluster
- D.2.13 and D.2.14 were deleted
- Odd Rønningen will be back with description for slope measurements.



Many of the received comments were accepted and the result of the WG 1 discussion can be seen as document ISO/TC 23/WG 1 N 41REV.

The modified draft shall be circulated to WG 1 experts for a second review and comment. The draft will then be discussed at next meeting to establish the replies to comments in document ISO/TC 23 N 572 and the text for the draft to be approved by ISO/TC 23 for circulation as a DIS.

7) Review of CD 20966, Automatic milking installations – Requirements and testing

Draft in document ISO/TC 23/WG 1 N 42 had been circulated for review and comment by 2004-03-10. Voting result had been received in document ISO/TC 23/WG 1 N 49 and N 49ADD. The draft was discussed based on received comments and the following were noted:

- All definitions to be moved to ISO 3918.
- ISO 5707 referenced with no restriction. This has to be followed up in the discussion about content for ISO 5707.
- A method to check the result of cleaning of teats will be given in an informative Annex B.
- Vacuum conditions deleted since it shall be covered by ISO 5707.
- For abnormal milk an example to detect blood and change in homogeneity will be kept in Annex C.
- For initiation of teat-cup removal text was deleted since it will be covered by ISO 5707.
- The requirement for refrigerated bulk milk tank was reworded.
- 7 Specifications was foreseen to be covered by ISO 5707.
- Annex B was reworded and Mr Mårtensen will provide the secretariat with values for the classification of cleanliness. Also IDF reference needs to be checked.
- Annex C was reworded by Mr Björk and Mr Mårtensen and new text presented at the meeting.

A number of other modifications were also agreed based on the received comments, see document ISO/TC 23/WG 1 N 49 REV.

The draft in document ISO/TC 23/WG 1 N 42 shall be modified as agreed at the meeting and circulated for a further review within WG 1 at the same time as the review of the other three drafts.

The result of the request to announce patent rights with possible conflict with CD 20966 was also discussed based on document ISO/TC 23/WG 1 N 50.

It was agreed that there are potential problems, which probably not can be avoided since some patents with very broad protection. It was also recognised that the scope of CD 20966 was broad in setting performance requirements.

It was agreed to follow the procedure foreseen by ISO and that the companies concerned shall be asked to specify their opinion concerning patent conflict and to send statement to ISO/CS that the holder is willing to negotiate world-wide licences under the conditions set by ISO.

Request for patent holder statement shall be initiated based on the draft to be reviewed in TC 23 for approval to be circulated as a DIS.

8) Review of Annex A to CD 20966 concerning machine safety

A draft had been circulated during autumn of 2003 for review and comments. A revised version had then been prepared based on received comments, by the project leader Mr Alt. The revised Annex A had been circulated in document ISO/TC 23/WG 1 N 43 and the comments with the project leaders observations in document ISO/TC 23/WG 1 N 44.



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The draft in N 43 was reviewed and briefly discussed at the meeting based on comments collected in document N 49.

It was agreed that the content of A.4.4 shall be lined up with the draft for ISO 5707 and that class designation for laser shall be checked. After review Mr Alt found class M2 to be correct.

With this clarifications it was agreed that the Annex shall be included in the next draft for CD 20966.

9) Review of time schedule for the work and future procedure

The schedule for the WG 1 work is aiming for new drafts to be ready to be circulated as DIS latest by spring 2005. Based on the agreements and conclusions at this meeting that further review is needed as well as some additional investigations, the following modified time schedule was agreed:

- Drafts for ISO 3918, ISO 5707, ISO 6690 and ISO 20966, reworded based on agreements at WG 1-meeting 2004-03-22 – 23, to be circulated by 2004-05-15 for review and comment within WG 1;
- Comments on all four drafts to be received from WG 1 experts by 2004-08-01;
- Drafts to be discussed based on received comments at next WG 1 meeting 2004-09-01 – 02;
- All four drafts to be prepared for circulation within TC 23 for review and voting (form 8) until 2004-12-20 for approval to go to DIS stage;
- WG 1 meeting 2005-01-20 - 21 to prepare DIS drafts based on received comments;
- Drafts edited (including French translation) for DIS-circulation before mid April 2005;
- WG 1-meeting in November/December 2005 to review and conclude on DIS comments and prepare final drafts for approval and publication.

10) Time and place for next meeting

Next meeting was agreed to be held at DeLaval AB in Tumba, Sweden 2004-09-01 – 02.

The following meeting was scheduled to 2005-01-20 – 21 in Orlando, USA (subject for confirmation at September meeting).



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Annex A

List of participants at the WG 1 meeting 2004-03-22 – 23

Convenor	Lars Innings	DeLaval International AB, Sweden
Secretary	Rolf Thesslin	SIS, Sweden
Finland	Esa Manninen Kaj Nyman	MTT Vakola MTT, Vakola
Germany	Norbert Alt Dieter Ordolff Beate Maassen-Francke Olaf Suhr	DIN/VDMA Federation Agriculture Research, Kiel Westfalia Surge GmbH Westfalia Surge GmbH
Italy	Franco Sangiorgi	University of Milano
Netherlands	Eduard Meijer Francesca Neijenhuis	Lely Industries NV Animal Sciences Group Wageningen UR
Sweden	Anders Björk	DeLaval International AB
UK	John Baines	Fullwood
USA	Douglas J Reineman	University of Winsconsin
IDF	Terje Alfnes Pierre Billon Edward Hopkin Morten Dam Rasmussen Odd Rønningen	TINE BA, Norway Institut de l'Élevage, France IDF, Belgium Danish Institute of Agricultural Sciences TINE BA, Norway