ICNDT General Assembly Meeting

Report of ISO/TC 135

27 October 2008

Hajime Hatano
Chairman, TC 135

Takeo Tsuchiya
Secretary, TC 135

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Plenary meeting of ISO/TC 135, Buenos Aires, October 2007

(Next plenary will be held in Moscow, June 2010)

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Membership

(1) P-members (30)

Argentina (IRAM), Austria (ON), Barbados (BNSI), Belgium (NBN), Brazil (ABNT), Bulgaria (BDS), Canada (SCC), China (SAC), Czech Republic (CNI), France (AFNOR), Germany (DIN), India (BIS), Indonesia (BSN), Iran, Islamic Republic of (ISIRI), Italy (UNI), Japan (JISC), Kazakhstan (KAZMEMST)(*), Kenya (KEBS) (*), Korea, Republic of (KATS), Malaysia (DSM) (*),New Zealand (SNZ), Philippines (BPS), Poland (PKN), Portugal (IPQ), Romania (ASRO), Russian Federation (GOST R), South Africa (SABS), Sweden (SIS), United Kingdom (BSI), Venezuela (FONDONORMA)

(*) *Participated as P-member since the plenary meeting in October 2005.*

(2) O-members (38)

Australia (SA), Belarus (BELST), Bosnia and Herzegovina(**) (BAS), Colombia (ICONTEC), Croatia (HZN), Cuba (NC), Ecuador (INEN), Egypt (EOS), Estonia (EVS), Finland (SFS), Greece (ELOT), Hong Kong, China (ITCHKSAR), Hungary (MSZT), Iraq (COSQC)(**), Ireland (NSAI), Israel (SII), Jamaica (BSJ), Korea, Democratic People's Rep. (CSK), Mauritius (MSB), Mexico (DGN), Moldova, Republic of (INSM), Mongolia (MASM), Netherlands (NEN), Norway (SN), Saudi Arabia (SASO), Serbia (ISS), Singapore (SPRING SG), Slovakia (SUTN), Spain (AENOR), Sri Lanka (SLSI), Thailand (TISI), Trinidad and Tobago (TTBS), Tunisia (INNORPI), Turkey (TSE), Ukraine (DSSU) (**), USA (ANSI)(**), Viet Nam (TCVN), Zimbabwe (SAZ)

(**) *Participated as O-member since the plenary meeting in October 2005.*

As of 2008-09-30

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Project Stages and Associated Documents

Code	Stage
00. * *	Preliminary stage
10. * *	Proposal stage
20. * *	Preparatory stage (WD)
30. * *	Committee stage (CD)
40. * *	Enquiry stage (DIS)
50. * *	Approval stage (FDIS)
60. * *	Publication stage (ISO)
90. * *	Review stage
95. * *	Withdrawal stage

Work Program (10)

SC 2 Surface methods

Reference		Title	CEN Documents
Stage Date	Stage		
FDIS 3452-5		Penetrant testing - Part 5: Penetrant testing at temperatures higher than 50 °C	prEN ISO 3452-5
2008-08-07	50.20		
FDIS 3452-6		Penetrant testing - Part 6: Penetrant testing at temperatures lower than 10 °C	prEN ISO 3452-6
2008-08-07	50.20		
CD 12706		Terminology - Terms used in penetrant testing.	revised prEN ISO 12706
2008-08-15	40.60		
NP 12707		Terminology - Terms used in magnetic particle testing	EN ISO 1330-7
2006-10-05	10.20		

SC 6 Leak detection methods

Reference		Title	CEN Documents
Stage Date	Stage		
Reinstate of AWI 20521		Terminology on leak testing	
	00.00		

SC 7/WG 7 Personnel qualification / Performance based qualification and certification

Reference		Title	CEN Documents
Stage Date	Stage		
CD 11774		Non-destructive testing personnel - Performance based qualification	
	30.60		

SC 8 Infrared thermography for non-destructive testing

Reference		Title	CEN Documents
Stage Date	Stage		
NP		Standard Guide for Examining Electrical Installations with Infrared Thermography	
2007-09-10	10.98		
NP		Infrared Thermography in Nondestructive Testing - Characters of Equipment and System	
2007-09-10	10.98		
WD 10878		Infrared thermography - Vocabulary and terminology	
2008-09-12	20.20		
NP		Standard Guide of Nondestructive Testing with Infrared Thermography	
2007-09-10	10.98		

International Standards (45)

WG 1 General terms and definitions

Reference		Title	CEN Documents
Publication Date	Stage		
ISO/TS 18173:2005		General terms and definitions	
2005-01-15	90.60		

WG 2 Training guidelines

Reference		Title	CEN Documents
Publication Date	Stage		
ISO/TR 25107:2006		Guidelines for NDT training syllabuses	CEN ISO/TR 25107:2006
2006-07-01	60.60		
ISO/TR 25108:2006		Guidelines for NDT personnel training organizations	CEN ISO/TR 25108:2006
2006-07-01	60.60		

SC 2 Surface methods

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 3057:1998		Metallographic replica techniques of surface examination	
1998-03-15	90.20		
ISO 3058:1998		Aids to visual inspection - Selection of low-power magnifiers	
1998-03-15	90.20		
ISO 3059:2001		Penetrant testing and magnetic particle testing - Viewing conditions	EN ISO 3059
2001-11-01	90.60		
ISO 3452:1984**		Penetrant inspection - General principles	
Withdrawn	95.99		
ISO 3452-1:2008		Penetrant testing - Part 1: General principles(Revision of ISO	EN 571-1
2008-09-01	60.60		
ISO 3452-2:2006		Penetrant testing - Part 2: Testing of penetrant materials	EN ISO 3452-2
2006-08-15	60.60		
ISO 3452-3:1998		Penetrant testing - Part 3: Reference test blocks	EN ISO 3452-3
1998-12-15	90.20		
ISO 3452-3:1998/Cor 1:2001		Penetrant testing - Part 3: Reference test blocks - Technical Corrigendum 1	
2001-02-01	60.60		
ISO 3452-4:1998		Penetrant testing - Part 4: Equipment	EN ISO 3452-4
1998-12-15	90.20		
ISO 3453:1984*		Liquid penetrant inspection - Means of verification	
Withdrawn	95.99		
ISO 9934-1:2001		Magnetic particle testing - Part 1: General principles	EN ISO 9934-1
2001-12-01	90.60		
ISO 9934-2:2002		Magnetic particle testing - Part 2: Detection media	EN ISO 9934-2
2002-12-01	90.60		
ISO 9934-3:2002		Magnetic particle testing - Part 3: Equipment	EN ISO 9934-3
2002-07-15	90.60		
ISO 9935:1992*		Penetrant flaw detectors - General technical requirements	
Withdrawn	95.99		

** Withdrawn March 2007, ** Withdrawn August 2008*

SC 3 Ultrasonic testing

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 2400:1972**		Welds in steel -- Reference block for the calibration of equipment for ultrasonic examination	
1972-06-15	90.93		
ISO 5577:2000		Ultrasonic inspection - Vocabulary	EN 1330-4
2000-05-01	90.93		
ISO 7963:2006***		Ultrasonic testing - Specification for calibration block No. 2	
2006-09-15	60.60		
ISO 10375:1997		Ultrasonic inspection - Characterization of search unit and sound field	EN 12268-2
1997-04-15	90.93		
ISO 12710:2002		Ultrasonic inspection - Evaluating electronic characteristics of ultrasonic test instruments	
2002-09-15	90.93		
ISO 12715:1999		Reference blocks and test procedures for the characterization of contact search unit beam profiles	EN 12223
1999-08-15	90.93		
ISO 18175:2004		Non-destructive testing - Evaluating performance characteristics of ultrasonic pulse-echo testing systems without the use of electronic	
2004-03-15	90.93		

**** Transferred from ISO/TC 44/SC 5*

SC 4 Eddy current methods

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 12718		Eddy current testing - Terminology	EN ISO 12718
2008-08-15	60.60		
ISO 15548-1		Equipment for eddy current examination - Part 1: Instrument characteristics and verification	EN ISO 15548-1
2008-09-15	60.60		
ISO 15548-2		Equipment for eddy current examination - Part 2: Probe characteristics and verification	EN ISO 15548-2
2008-09-15	60.60		
ISO 15548-3		Equipment for eddy current examination - Part 3: System characteristics and verification	EN ISO 15548-3
2008-09-15	60.60		
ISO 15549		Eddy current examination - General principles	
2008-08-01	60.60		

SC 5 Radiation methods

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 5576:1997		Industrial X-ray and gamma-ray radiology - Vocabulary	EN 1330-3
1997-08-01	90.93		
ISO 5579:1998		Radiographic examination of metallic materials by X- and gamma rays - Basic rules	EN 444
1998-07-01	90.20		
ISO 5580:1985		Industrial radiographic illuminators -- Minimum requirements	
1985-03-15	90.93		
ISO 11537:1998		Thermal neutron radiographic testing - General principles and basic rules	
1998-07-15	90.20		
ISO 11699-1:1998****		Industrial radiographic films -- Part 1: Classification of film systems for industrial radiography	
Withdrawn	95.99		
SO 11699-1:2008		Industrial radiographic film — Part 1: Classification of film systems for industrial radiography (Revision of ISO 11699-1:1998)	EN 584-1
2008-09-15	60.60		
ISO 11699-2:1998		Industrial radiographic films - Part 2: Control of film processing by means of reference values	EN 584-2
1998-07-01	90.20		
ISO 12721:2000		Thermal neutron radiographic testing - Determination of beam L/D ratio	
2000-04-15	90.93		
ISO 14096-1:2005		Qualification of radiographic film digitisation systems - Part 1: Definitions, quantitative measurements of image quality parameters, standard reference film and qualitative control	EN 14096-1
2005-06-15	90.93		
ISO 14096-2:2005		Qualification of radiographic film digitisation systems - Part 2: Minimum requirements	EN 14096-2
2005-06-15	90.93		
ISO 15708-1:2002		Radiation methods - Computed tomography - Part 1: Principles	
2002-06-01	90.93		
ISO 15708-2:2002		Radiation methods - Computed tomography - Part 2: Examination practices	
2002-07-01	90.93		
ISO 19232-1:2004		Image quality of radiographs - Part 1: Image quality indicators (wire type) - Determination of image quality value	EN 462-1
2004-07-01	90.93		
ISO 19232-1:2004 /Cor 1:2007		Image quality of radiographs - Part 1: Image quality indicators (wire type) - Determination of image quality value - Technical Corrigendum 1	
2007-07-15	60.60		
ISO 19232-2:2004		Image quality of radiographs - Part 2: Image quality indicators (step/hole type) - Determination of image quality value	EN 462-2
2004-07-01	90.93		
ISO 19232-2:2004 /Cor 1:2007		Image quality of radiographs - Part 2: Image quality indicators (step/hole type) - Determination of image quality value - Technical Corrigendum 1	
2007-07-15	60.60		
ISO 19232-3:2004		Image quality of radiographs - Part 3: Image quality classes for ferrous metals	EN 462-3
2004-07-01	90.93		
ISO 19232-4:2004		Image quality of radiographs - Part 4: Experimental evaluation of image quality values and image quality tables	EN 462-4
2004-07-01	90.93		
ISO 19232-5:2004		Image quality of radiographs - Part 5: Image quality indicators (duplex wire type) - Determination of image unsharpness value	EN 462-5
2004-07-01	90.93		
ISO/TS 21432:2005		Test methods for determining residual stresses by neutron diffraction	CEN ISO TS 21432
2005-07-15	90.20		
ISO/TS 21432:2005 /Cor 1:2008		Test methods for determining residual stresses by neutron diffraction - Technical Corrigendum 1	
2008-01-15	60.60		

**** *Withdrawn September 2008*

SC 6 Leak detection methods

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 3530:1979		Vacuum technology - Mass-spectrometer-type leak-detector calibration	
1979-09-01	90.60		

SC 7 Personnel qualification

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 9712:2005		Qualification and certification of personnel	EN 473:2000
2005-02-15	90.60		
ISO 9712:2005 /Cor 1:2006		Qualification and certification of personnel - Technical Corrigendum 1	
2006-11-01	60.60		
ISO 20807:2004		Qualification of personnel for limited application of non-destructive testing	
2004-03-01	90.93		

SC 7/WG 7 Personnel qualification / Performance based qualification and certification

Reference		Title	CEN Documents
Publication Date	Stage		
ISO/TS 22809:2007		Discontinuities in specimens for use in qualification examinations	CEN/TS 15053
2007-11-15	60.60		

SC 9 Acoustic emission testing

Reference		Title	CEN Documents
Publication Date	Stage		
ISO 12713:1998		Acoustic emission inspection - Primary calibration of transducers	
1998-07-15	90.93		
ISO 12714:1999		Acoustic emission inspection - Secondary calibration of acoustic emission sensors	
1999-07-15	90.93		
ISO 12716:2001		Acoustic emission inspection - Vocabulary	
2001-06-15	90.93		

Activity Report

1. 16th Plenary Meeting of ISO/TC 135

   ISO/TC 135 held its 16th plenary meeting in Buenos Aires on October 26, 2007. In the plenary, the following were reported:

   (1) Replacement of TC 135 Chairman and Secretary
   The former TC 135 Secretary, Prof. Hatano, was nominated for the new chairman of TC 135 by JISC in February 2007 and was approved by ISO/CS. Mr. Tsuchiya was appointed new secretary.

   (2) Division of SC3 and Change of its Secretariat
   SC 3 was divided into two SCs, namely SC 3 Ultrasonic testing (secretariat; DIN/Germany) and SC 9 Acoustic emission testing (secretariat; ABNT/Brazil).

   (3) Revision of EN473
   The progress of revision work of EN 473 was reported with the account on discrepancy between ISO 9712 and EN 473.

   (4) Revision of ISO 11484
   ISO/TC 135 opposed to the plan to expand the scope of ISO 11484 *Steel tubes for pressure purposes - Qualification and certification of non-destructive testing* (*NDT*) *personnel* that was prepared by TC 17 *Steel.* The objection to the draft ISO 11484 was accepted by TC 17/SC 19 and the draft was amended.

   (5) New Work Item Proposal by VAMAS
   The Versailles Project on Advanced Materials & Standards: Technical Working Area 26 – Full Field Optical Stress and Strain Measurements (VAMAS TWA26), circulated a letter to TC 135 proposing their two pre-standards on calibration of optical stress and strain gauge as the draft international standards. Their proposal was transferred to TC 135/SC 2 *Surface methods.* SC 2 has been examining the contents of VAMAS standards and will ballot for NWI handled by SC 2.

   (6) Cooperation with Other Organizations on NDT
   The cooperation with the organization external from ISO (CEN/TC 138, ICNDT, and EFNDT) and their brief contents were reported.

   (7) Next TC 135 Plenary Meeting
   It was also reported that ISO/TC 135 was invited by ChSNDT to hold TC 135 plenary in Shanghai in conjunction with 17WCNDT in 2008. However, TC 135 had to decline the invitation as TC 135 has just held its plenary and already decided to hold the next plenary in Moscow in June 2010. Instead of TC 135 plenary, SC 7/WG 7 and SC 8 will hold their meeting in Shanghai in October 2008.

   (8) Publication of CEN ISO/TR 25107 and 25108
   Concerning CEN ISO/TR 25107 Guidelines for NDT training syllabuses and CEN ISO/TR 25108 Guidelines for NDT personnel training organizations that were prepared by ISO/TC 135/WG 2 Training guidelines (Convener Dr. Kozlowski) in cooperation with CEN/TC 138, it was reported that these were published on 2006/07/01 after parallel voting by ISO and CEN.

At AFNOR, June 2008

2. Settlement of the discrepancy between ISO 9712 and EN 473

The discrepancy observed between ISO 9712 and EN 473 is a main concern for most people involved in NDT. In connection with this point the ISO/TC 135 chair and secretary had a discussion with the CEN/TC 138 chair and secretary at AFNOR, on the way from the ISO Chairs' Meeting in Geneva, in June 2008. Several measures with basic policy were talked among them but specific method for settlement needs further discussion. ISO/TC 135 and CEN/TC 138 will continue to solve this problem.

3. New and Possible Liaisons

(1) Liaison with ISO/TC 108/SC 5
TC 135/SC 7, 8 and 9 have established a liaison with ISO/TC 108/SC 5 "Mechanical vibration and shock/condition monitoring and diagnostics of machines". The main purpose of these liaisons is the cooperation in the field of application of acoustic and thermal methods to preventive maintenance.

(2) Liaison with INLAC
INLAC (Latino American Institute for Quality Assurance) proposed ISO/TC 135 to establish a liaison. This proposal will be ballot (Committee Internal Ballot) inside TC 135.

Message to CEN/TC 138 (March2007)

ISO/TC 135 **N 310**

Transmission	
Our Date	07-03-19
Our Ref.	07L003
Number of pages: 2 (Incl. this page)	

To: Chairman of CEN/TC 138
Secretary of CEN/TC 138
Cc: ISO Central Secretariat
Conveners of ISO/TC 135/SC 7/WGs
Chairman of ICNDT
President of EFNDT
President of APCNDT

From: ISO/TC 135 Secretariat
Japanese Society for
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Email : iso@jsndi.or.jp

Subject: Revision of EN 473:2000

Dear Mr. Kozlowski and Mr. Chapelain:

Thank you for the document N 870 Result of electronic balloting for CEN enquiry of prEN 473 Non destructive testing - Qualification and certification of NDT personnel - General principles.

We are still concerned about the current revision of EN 473:2000, since, as we explained before (please refer to ISO/TC 135 N 305), the proposed changes could cause substantial divergence between EN 473 and ISO 9712:2005: Non-destructive testing - Qualification and certification of personnel. We are afraid that the revision could put ISO/TC 135 members, including of course, European members, in a difficult position regarding qualification and certification of NDT personnel.

As per the role of a special liaison to comply with the Vienna agreement, we would like to propose at the minimum, that the fundamental parameters such as training hours, should be either unchanged from EN 473:2000 or aligned with ISO 9712:2005, provided that this subject is reviewed during the next revision of ISO 9712. For your consideration, a table of training requirements is attached. In the table, training hours of ISO 9712 are converted to those exclusive of level1 or level 2 for comparison with EN 473.

We would appreciate it if our proposal be considered at the next CEN/TC 138 meeting scheduled for April 2007 in Paris, and we look forward to seeing you there.

Best Regards,

Hajime Hatano
Chairman, ISO/TC 135

Richard V. Murphy
Chairman, ISO/TC 135/SC 7

Takeo Tsuchiya
Secretary, ISO/TC 135

Patricia A. Dolhan
Secretary, ISO/TC 135/SC 7

Training requirements

NDT Method		Level 1 (hours)				Level 2 (hours)				Level 3 (hours)			
		EN 473 [1]		ISO 9712 [1]		EN 473 [2]		ISO 9712 [3]		EN 473 [2]		ISO 9712 [3]	
		2000	Propose Revision	2005	1999	2000	Propose Revision	2005	1999	2000	Propose Revision	2005	1999
AT		40	**40**	**40**		64	**40**	**64**			**40**	**46**	
ET		40	**40**	**40**	40	40	**40**	**64**	40		**40**	**46**	
LT	A - Basic knowledge	8	**8**	**8**		16	**8**				**8**	**12**	
	B - Pressure method	14	**16**	**14**		28	**24**	**31**			**24**	**21**	
	C - Tracer gas method	18	**16**	**18**		36	**32**	**36**			**32**	**24**	
MT		16	**16**	**16**	16	24	**24**	**24**	24		**32**	**20**	
PT		16	**16**	**16**	16	24	**24**	**24**	24		**24**	**20**	
RT		40	**72**	**40**	40	80	**80**	**80**	80		**72**	**40**	
UT		40	**72**	**40**	40	80	**80**	**80**	80		**72**	**40**	
VT		16	**16**	**16**		24	**24**	**24**			**24**	**24**	

Notes: [1] Minimum requirements.
[2] Minimum requirements, exclusive of level 1 or level 2.
[3] Minimum requirements, converted to those exclusive of level 1 or level 2.

Comparison of training requirements (As of September 2008)

NDT Method		Level 1 (hours)						Level 2 (hours)						Level 3 (hours)					
		EN 473 [1]		CEN ISO TR 25107		ISO 9712 [1]		EN 473 [2]		CEN ISO TR 25107		ISO 9712 [3]		EN 473 [2]		CEN ISO TR 25107		ISO 9712 [3]	
		2000	2008	E [4]	P [5]	2005	1999	2000	2008	E [4]	P [5]	2005	1999	2000	2008	E [4]	P [5]	2005	1999
AT		40	**64**	38.5	24.0	**40**		64	**64**	36.0	23.0	**64**			**48**	44.5	4.0	**46**	
ET		40	**40**	19.0	19.0	**40**	40	40	**40**	25.0	23.0	**64**	40		**40**	29.5	14.0	**46**	
LT	A - Basic knowledge	8	**8**	7.0		**8**		16	**8**	10.0		**16**			**8**	11.0		**12**	
	B - Pressure method	14	**16**	13.5		**14**		28	**24**	29.0		**31**			**24**	22.5		**21**	
	C - Tracer gas method	18	**16**	18.5		**18**		36	**32**	37.0		**36**			**32**	28.5		**24**	
MT		16	**16**	18.5	10.0	**16**	16	24	**24**	27.0	12.5	**24**	24		**32**	31.0	3.0	**20**	
PT		16	**16**	9.0	8.0	**16**	16	24	**24**	16.0	11.0	**24**	24		**24**	20.0	3.0	**20**	
RT		40	**72**	40.5	32.5	**40**	40	80	**80**	83.0	20.0	**80**	80		**72**	91.5	31.0	**40**	
UT		40	**64**	38.0	24.0	**40**	40	80	**80**	57.0	38.0	**80**	80		**72**	54.5	28.0	**40**	
VT		16	**16**	11.0	10.0	**16**		24	**24**	17.5	7.75	**24**			**24**	21.0	4.0	**24**	

Notes: [1] Minimum requirements.
[2] Minimum requirements. Exclusive of level 1 or level 2.
[3] Minimum requirements. Figures were converted to exclude training hours of level 1 or level 2.
[4] Educational training time.
[5] Practical training time.

Discussion Between CEN and ISO
(June 2008)

ISO/TC 135 **N 334**

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To: ISO Central Secretariat
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O-members of ISO/TC 135
Chairmen of ISO/TC 135/SCs
Secretaries of ISO/TC 135/SCs
Chairman of CEN/TC 138
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Subject: Discussion on the solution of discrepancy between ISO 9712 and EN 473

Dear Sir or Madam,

This is to inform you of the recent discussion held between ISO/TC 135 and CEN/TC 138.

On our return from ISO TC/SC Chairs' Conference 2008 held in Geneva, Chairman and Secretary of TC 135 visited AFNOR to discuss with CEN/TC 138 to solve the recent discrepancies between ISO 9712 and EN 473. Formerly in September 2007, Mr. Kozlowski, the Chairman of CEN/TC 138, proposed to establish Joint WG between ISO and CEN.

However, this proposal could not be discussed in previous TC 135 plenary in Buenos Aires in October 2007 because of his absence due to health problem but only introduced to the participants to the plenary. In order to start the discussion on their proposal in SC 7 meeting in Shanghai this October, the outline of establishment of Joint WG needs to be discussed between ISO and CEN in advance. For this purpose Chairman and Secretary visited AFNOR.

In the meeting TC 135 Chairman expressed that the proposal of joint WG was too late taking the revision of EN 473 into account because that the revision of EN 473 has been completed already (see attached CEN/TC 138 N976), and that the establishment of Joint WG will become meaningless without revision of EN 473.

Responding to this, Mr. Kozlowski expressed the basic idea on the conformity between ISO 9712 and EN 473 (see attached CEN/TC 138 N977). His opinion was to start the discussion by Joint WG prior to the revision of systematic review of ISO 9712 for its effective review. He also expressed to participate in SC 7 meeting in Shanghai to discuss this matter.

TC 135's response to this subject will be discussed by TC 135/SC 7, as the main subject is to solve the discrepancies between ISO 9712 and EN 473.
However, all SCs of ISO/TC 135 are also related to this subject to some extent and requested to watch the progress from the viewpoint of each SC.

Sincerely,

Hajime Hatano — Chairman, ISO/TC 135

Takeo Tsuchiya — Secretary, ISO/TC 135