



IEC/TC or SC TC 34	Secretariat United Kingdom	Date 2006-12-19
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Please ensure this form is annexed to the Report to the Standardization Management Board if it has been prepared during a meeting, or sent to the Central Office promptly after its contents have been agreed by the committee.

Title of TC Lamps and related equipment
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A. Background

TC 34 prepares International Standards for lamps and other related equipment.

It was established in 1948.

Electric lamps, lamp caps and holders, lamp controlgear and luminaires are all components of lighting installations which can only fulfil their illuminating function when operated together. TC 34 provides a co-ordinating function for these component sub-committees.

The aim of the standardisation work carried out by TC 34 and its sub-committees is to define the characteristics ensuring safety, functional reliability and interchangeability of those components mentioned above.

TC 34 LAMPS AND RELATED EQUIPMENT

Scope:

To prepare international standards regarding specifications for :

- a) lamps including LED's and glow starters,
- b) lamp caps and holders,
- c) lamp controlgear,
- d) luminaires,
- e) miscellaneous related equipment not covered by a project of another technical committee.

TC 34 Maintenance/Project Teams:

MT1: Maintenance of IEC 61547

AHG on Lighting Equipment Harmonic Limits

TC 34 has four subcommittees: 34A, 34B, 34C and 34D which in turn have maintenance team, and Working Groups which assess and develop proposed items for new or existing standards, establishing project teams or ad-hoc groups as required. TC 34 also has a Chairman's/Secretary's Group.

SC 34A: LAMPS

Terms of reference:

To prepare International Standards regarding specifications for lamps* and glow starters.

* The term Lamps includes LED for General Lighting Services

SC 34A Maintenance Team/Project team

Maintenance Team PRESCO: Maintenance of all Standards under the responsibility of SC 34A.

PT 62031: LED modules for general lighting

Ad-hoc groups are established as required.

SC 34B: LAMP CAPS AND HOLDERS

Terms of reference:

Standardization of lamp* caps and holders with a view to standardize both these components to ensure proper contact-making combined with interchangeability and safety.

* The term Lamps includes LED for General Lighting Services

There are currently four Maintenance Teams:

- EPC1: Maintenance of specifications for lampholders
- EPC2: General lighting service and fluorescent tube cap/holder fits.
- EPC3: Automotive lamp cap/holder fits.
- EPC4: Miscellaneous cap/holder fits covering projection, miniature and photo lamps etc.

SC 34C: AUXILIARIES FOR LAMPS

Terms of reference:

To prepare International Standards regarding specifications for lamp controlgear.

SC 34C Maintenance Team and Project Teams

Maintenance Team COMEX: Maintenance of all standards under the responsibility of SC 34C;

MT60929: Maintenance of 60929

Working group : Controlgear.

PT62386 : Digital control interface

PT62442-1:Method of measurement for energy consumption

PT62442-2 :Energy labelling and MEPS

Ad-hoc groups are established as required.

SC 34D: LUMINAIRES

Terms of reference

To prepare International Standards regarding specifications for luminaires.

SC 34D Maintenance Team and Project Teams:

Maintenance Team: LUMEX Maintenance of all standards under the responsibility of SC 34D;

Project Teams:

PT60598-2-14:Luminaires for Neon signs and similar equipment

Ad Hoc groups on Interpretations, Preparatory action, Ad-hoc groups are established as required.

Total number of Publications issued: 81 (as of June 2006)

TC 34 = 1(work on a product related standard on EMF has started)

SC 34A = 35

SC 34B = 11

SC 34C = 23

SC 34D = 24

Total Projects in development: 54 (as of October 2006)

TC 34: 1

SC 34A: 7

SC 34B: 19

SC 34C: 15

SC 34D: 4

Projects in development are given in the work programmes of each subcommittee.

Membership

There are 32 P-members of TC 34

Australia	Germany	Netherlands	Slovenia
Austria	Greece	New Zealand	South Africa
Belgium	Hungary	Norway	Spain
China	India	Portugal	Sweden
Denmark	Italy	Romania	Thailand
Egypt	Japan	Russian Federation	Turkey
Finland	Korea (Rep of)	Saudi Arabia	UK
France	Mexico	Serbia	US

Number of participating countries of the subcommittees:

SC 34A: 26

SC 34B: 23

SC 34C: 31

SC 34D: 31

Liaisons:

TC 34 has liaison directly with

IEC/TC 97

ISO (ISO/TC 20/SC 1 - ISO/TC 22 - ISO/TC 22/SC 8 - ISO/TC 149 - ISO/TC 23)

CIE

TC 34 has liaison through its subcommittees with:

SC 34A:

IEC/TC 61, TC 76, TC 97

CIE

CENELEC, ACOS, GTB, ANSI, JIS

SC34B:

SC34B has no official liaisons. Ad-hoc liaisons with ACOS, ACEA, AECMA, GTB, CENELEC are considered to be sufficient.

SC 34C:

IEC/TC 33, TC 64, SC 77A, TC 96

CENELEC/TC 34Z, ACOS, ANSI, JIS, CSA

SC 34D:

IEC/SC 23B, TC 64, TC 70, TC 97

CENELEC/TC 34Z, ACEA, ACOS, ANSI, JIS, CIE, CEN/TC 169 WG 7.

Liaisons to be sought with SC 17B and TC 20.

Interpretation Sheets:

This Technical Committee makes use of Interpretation Sheets.

B. Environment

B.1 Business environment

Rapid technological developments have to be incorporated into the standards/publications within TC 34 area of work. This is driven from the external environment.

Internal environment is to develop standards/publications which provide adequate information to application designers and engineers and ensure that there is no restriction on the supply and/or interchangeability of replacement components.

B.2 Market demand

Customers of the standards are manufacturers, certification and testing bodies, designers, end users, specifiers, retailers, consumers and government organisations. These are actively represented through either direct membership of Maintenance Teams, Project Teams, Working Groups or through the National Committee structure. The Committee's activities are well supported by the involvement of interested bodies.

TC 34 standards are widely adopted at both regional and national level. In Europe, CENELEC adopts the standards through the parallel procedures established with IEC, there are few modifications introduced. Harmonisation and adoption of the standards (with ANSI, JIS, etc..) has greatly advanced, resulting in less deviations worldwide.

Predominantly, this is an area of standards' maintenance. Due to the rapid technological developments in the lighting field, the market is constantly demanding to keep existing standards up-to-date. There is also a small area of completely new standards' development.

B.3 Trends in technology and trade

Energy saving, energy labelling, miniaturisation and co-ordination between lighting products require standards to be adapted. Rapid changes take place in the automotive industry.

Improvements will need to be made to the standards to deal with implications of regional voltage changes and the environmental impact of products.

Use of alternative light sources (LED's) has required new standards to be developed. New government requirements regarding Electromagnetic Fields (EMF) require development of a product related standard on this issue.

B.4 Ecological environment

Industry today is very conscious of the need to develop their products to have less impact on the environment, using the guidance from IEC Guide 109 and taking environmental issues into account during standards' maintenance and development. Improvements are foreseen, (less toxic, recycling, lead-free etc.) reducing harmful effects on the natural environment.

C. Work programme

C.1 Current work

The current work programmes are listed on IEC websites of TC 34 and its subcommittees.

During the Berlin series of meetings, the maintenance teams met in the afternoons of the same day as the sub-committees.

The maintenance teams are planning to meet for one day each (one and a half days for LUMEX) during the same week, in Canada in April 2007 and the same programme of meetings is also scheduled to take place in the France in October 2007. Unless the needs of the maintenance teams change drastically, it is envisaged to hold two similar programmes of meetings during the Spring and Autumn of 2008.

In addition, project teams and ad-hoc groups when required meet during a series of TC 34 related meetings held in January and June/July each year. This enables a set timetable to be adhered to and enables work items to be progressed effectively. Co-ordination of meetings in this way reduces costs to those participating because of the overlap of membership between the work areas. It also provides a regular, structured interface between the related lighting products committees. The project teams and ad-hoc groups meetings scheduled for January 2007 will be held in Phoenix, USA and those scheduled for June/July will be held in the UK or Germany.

Main activities of **SC34A** and MT PRESCO are maintenance of existing standards to take account of new lamp developments. This includes provision of data for electronic control gear design covering fluorescent dimming and electronic operation of metal halide lamps. A new standard is being developed for LED module safety. Further LED standards are expected to follow covering

LED replacement lamps and LED module performance.

Since 1998 SC 34A PRESCO together with SC 34C COMEX have held technical workshops which provide an open forum for industry worldwide to discuss and develop ways forward to deal with new initiatives on the market place and areas of concern needing future standardization. These have covered fluorescent dimming, electronic operation of MH lamps and LED module safety.

Main activities for **SC 34B** are as follows:

Specifications for lampholders

IEC 60238 - Marking of working voltages, update on creepage distances and clearances
IEC 60399 - Use of non-standardised threads, scope, normative references, definitions
IEC 60400 - GU10q / GZ10q amendment, GX5 amendment, contact-making in crimp zones
IEC 60838-1 - Marking of working voltages, update on creepage distances and clearances, contacts providing electrical connection during lamp holder installation
IEC 61184 - Revision of thermal test / Table 11
Creepage distances and clearances, update
Safety testing on shade holder rings
Access to basic insulated parts
Alignment of working voltage requirements between TC 34 standards
Listing worldwide situation regarding cap/holder fits for domestic lighting. Maintain watch.
Fully safe cap and holder designs. Maintain watch.

General lighting service and fluorescent tube cap/holder fits

2G8 fit - update
GX53 fit - update
GX5 fit – new
Guideline for G13 gasket sleeves
Introduction of general requirements for caps regarding creepage distances and clearances
Fully safe cap/holder designs. Maintain watch.

Automotive lamp cap/holder fits

BAW9s & BAZ9s fits - New
WZ3x16q fit - new
GU16d fit - Harmonisation
Introduction of general requirements for caps regarding creepage distances and clearances
Fully safe cap/holder designs. Maintain watch.

Miscellaneous cap/holder fits covering projection, miniature and photo lamps, etc.

G9 fit - update
GU6.5 fit - new
PGJ5 fit - new
PGZ12 fit - update
Guidelines for new fits
G8.5 fit - update
GX10/GY10 fit - update
Introduction of general requirements for caps regarding creepage distances and clearances
Fully safe cap/holder designs. Maintain watch.

The main activity of **SC 34C**, is the maintenance of the current 61347 series of standards parts 1 to Part 2-13. Technical changes are being held in abeyance and will be incorporated as amendments to the relevant parts.

Also within SC 34C, new work started in the area of 'Digital addressable lighting interface' (IEC 62386-series)

Main work items for **SC 34D** and its project teams at present are as follows:

Preparation of IEC 60598-1 seventh edition – proposed publication date 2007

Revision of the requirements for F-marking of luminaires in IEC 60598-1 and its part 2s – proposed for inclusion in the 7th edition of IEC 60598-1

Revision of requirements for leakage current – proposed for inclusion in the 7th edition of IEC 60598-1

Revision of creepage and clearance requirements – proposed for inclusion in the 7th edition of IEC 60598-1

Preparation of a new Part 2 for luminaires for neon lamps and similar equipment

Preparation of IEC 60598-2-3 Ed 3 Amendment 1: Particular requirements for road and street lighting

Preparation of IEC 600598-2-8 Ed 2 – Amendment 2 Particular requirements – Handlamps

Preparation of IEC 60598-2-22 Ed3 Amendment 2 Particular requirements for emergency lighting

TC 34 Ad Hoc Group on lighting equipment harmonic limits prepared a proposal to amend the harmonic limits in IEC 61300-3-2. This proposal was submitted to SC 77A WG1 and will be considered in the revision of IEC 61300-3-2.

The current membership of the maintenance teams, the close liaisons with other TC 34 committees and maintenance teams and liaisons with other committees provide the required expertise.

C.2 Resources/infrastructure needed

Increased use of electronic facilities has led to a decrease in the development time for standards within the TC 34 work area. IEC ftp server sites are used for each Maintenance Team in parallel with document distribution by Email attachments.

TC 34 has a Chairman's/Secretary's Group for their Sub-Committees which meets at the same time as the Maintenance Teams. It provides the TC 34 Chairman with advice and also provides a forum for cross-product subcommittee discussions and co-ordination of the activities of the subcommittees and maintenance teams. Matters affecting all groups are often put to the Chairman's/Secretary's Group for initial discussion and co-ordination.

Editing Committees consisting of Chairmen, French experts and Secretaries carry out a great deal of editing electronically and by correspondence. However, where new editions are being developed, or completely new standards produced, the editing committees meet as required.

D. Future work

Need to assess available standards for their applicability to new technological developments such as higher frequencies, alternative light sources (LEDs).

Development of separate performance and safety standards for those areas where this has not already been undertaken.

New developments which have principle safety implications and require new requirements will be dealt with urgently.

Maintenance Teams will continue to improve the technical contents of publications and the preparation of new technical requirements as required by the advancing technology of lighting equipment.

E. Maintenance cycle				
Publication no.	Date of publication	Review date	Maintenance result date	Responsibility (Maintenance Team)
IEC 60061-1:DB	Ed.3: 1969 (+ A37, 2006)	Twice annually	Two Amendments. per year	EPC2, 3 and 4
EC 60061-2:DB	Ed.3: 1969 (+ A34, 2006)	Twice annually	Two Amendments per year	EPC2, 3 and 4
IEC 60061-3:DB	Ed.3: 1969 (+ A36, 2006)	Twice annually	Two Amendments par year	EPC2, 3 and 4
IEC 60061-4:DB	Ed.1: 1990 (+ A10, 2006)	Twice annually	2 Amendments par year	EPC2, 3 and 4
IEC 60064	Ed.6:1993 (+A3:2005)	Already started	2007	PRESCO
IEC 60081	Ed.5:1997 (+A3:2005)	Already started	2008	PRESCO
IEC 60155	Ed.4: 1993 (+A1: 1995)	Already started	2008	PRESCO
IEC 60188	Ed.3: 2001	twice annually	2008	PRESCO
IEC 60192	Ed. 3: 2001	twice annually	2008	PRESCO
IEC 60238	Ed.8: 2004	Already started	2007	EPC1
IEC 60240-1	Ed.2:1992	twice annually	2010	PRESCO
IEC 60357	Ed.3:2002 (+A1:2006)	twice annually	2007	PRESCO
IEC 60360	Ed. 3: 1998	twice annually	2007	PRESCO
IEC 60399	Ed.2: 2004	already started	2007	EPC1
IEC 60400	Ed.6: 1999 (+A2:2004)	Already started	2007	EPC1
IEC 60432-1	Ed. 2: 1999 A1:2005	twice annually	2007	PRESCO
IEC 60432-2	Ed.2: 1999 A1: 2005	twice annually	2007	PRESCO
IEC 60432-3	Ed.1:2002 (+A1:2005)	Already started	2007	PRESCO
IEC 60434	Ed. 1: 1973 (+A2: 1984)	Twice annually	2008	PRESCO
IEC 60570	2003-01	Twice annually	2008	LUMEX
IEC 60598-1	2003-10	Under revision	2008	LUMEX
IEC 60598-1 IS1	2004-02	Interpretation sheet (ed6)	2008	LUMEX
IEC 60598-2-1	Ed. 1: 1979 (+ A1: 1987)	twice annually	2008	LUMEX
IEC 60598-2-2	Ed. 2: 1996 (+ A1: 1997)	twice annually	2008	LUMEX
IEC 60598-2-3	2002-12	Under revision	2008	LUMEX
IEC 60598-2-4	Ed. 2: 1997 (Ed 2)	twice annually	2008	LUMEX
IEC 60598-2-5	Ed. 2: 1998 (Ed 2)	twice annually	2008	LUMEX
IEC 60598-2-6	Ed. 2: 1994 (+A1: 1996)	twice annually	2008	LUMEX

Publication no.	Date of publication	Review date	Maintenance result date	Responsibility (Maintenance Team)
IEC 60598-2-7	Ed. 1: 1982 (+ A1: 1987 + A2: 1994)	twice annually	2008	LUMEX
IEC 60598-2-8	Ed. 2: 1996 (+A1: 2000)	under revision	2007	LUMEX
IEC 60598-2-9	Ed. 2: 1987 (+A1: 1993)	twice annually	2008	LUMEX
IEC 60598-2-10	2003-05	Twice annually	2008	LUMEX
IEC 60598-2-11	2005-05	Twice annually	2008	LUMEX
IEC 60598-2-12	2006-03	Twice annually	2008	LUMEX
IEC 60598-2-13	2006-06	Twice annually	2008	LUMEX
IEC 60598-2-17	1984-01	Twice annually	2008	LUMEX
IEC 60598-2-18	Ed. 2: 1993 (Ed 2)	twice annually	2008	LUMEX
IEC 60598-2-19	Ed.1: 1981 (+A1: 1987 + A2: 1997)	twice annually	2008	LUMEX
IEC 60598-2-20 Inc IS1,IS2,IS3	1996	Twice annually	2008	LUMEX
IEC 60589-2-22	2002-08	already started	2007	LUMEX
IEC 60598-2-23	Ed. 1: 1996 (+A1: 2000)	twice annually	2008	LUMEX
IEC 60598-2-24	1997-08	twice annually	2008	LUMEX
IEC 60598-2-25	1994-08	Twice annually	2009	LUMEX
IEC 60630	Ed.2:1994 (+A5:2005)	Already started	2007	PRESCO
IEC 60634	Ed. 2: 1993	twice annually	2008	PRESCO
IEC 60662	Ed. 1: 1980 (+A10:1997)	Already started	2007	PRESCO
IEC 60682	Ed. 1: 1980 (+A2: 1997)	twice annually	2008	PRESCO
IEC 60809	Ed.2: 1995 (+A3: 2004)	Already started	2007	PRESCO
IEC 60810	Ed.3:2003	twice annually	2007	PRESCO
IEC 60838-1	Ed.4: 2004	Already started	2007	EPC1
IEC 60838-2-1	Ed.1: 1994 (+ A2, 2004)	Already started	2009	EPC1
IEC 60838-2-2	Ed.1:2006	Already started	2009	EPC1
IEC 60810	Ed3:2003	Work started	2007	PRESCO
IEC 60882	Ed.1: 1986	twice annually	2008	PRESCO
IEC/TR 60887	Ed. 2: 2003	twice annually	2007-	PRESCO
IEC 60901	Ed.2:1996 (+A4:2003)	Already started	2007	PRESCO
IEC 60923	Ed.2.1: 2001	2007	2011	COMEX
IEC 60925	Ed. 1.2: 2001	2007	2008	COMEX
IEC 60927	Ed 2.1: 2000	2007	2008	COMEX
IEC 60968	Ed.1:1988 (+A2: 1999)	twice annually	2007	PRESCO

Publication no.	Date of publication	Review date	Maintenance result date	Responsibility (Maintenance Team)
IEC 60969	Ed.1:1988 (+A2:2000)	twice annually	2007	PRESCO
IEC/TR 60972	Ed.1:1989 (+A1:1991)	twice annually	2008	PRESCO
IEC 60983	Ed.2:1995 (+A1:2005)	twice annually	2008	PRESCO
IEC 61049	Ed.1: 1991	2007	2008	COMEX
IEC 61050	Ed.1: 1991 (+A1:1994)	2007	2008	COMEX
IEC 61126	Ed.1:1992 (A2:2005)	twice annually	2007	PRESCO
IEC/TR 61127	Ed. 1: 1992	twice annually	2008	PRESCO
IEC 61167	Ed.1:1992 (+A3:1998)	Already started	2007	PRESCO
IEC 61184	Ed.2: 1997 (+ A2, 2004)	Already started	2007	EPC1
IEC 61195	Ed.2:1999	twice annually	2007	PRESCO
IEC 61199	Ed.2:1999	twice annually	2007	PRESCO
IEC 61228	Ed.1:1993 (+A1:1996)	twice annually	2007	PRESCO
IEC/TS 61231	Ed.2:1999	twice annually	2007	PRESCO
IEC/TR 61341	Ed.1:1994	twice annually	2008	PRESCO
IEC 61347-1	Ed.1.1: (+A1:2003)	Already started	2007	COMEX
IEC 61347-2-1	Ed. 1: 2000	already started	2008	COMEX
IEC 61347-2-2	Ed. 1: 2000	already started	2009	COMEX
IEC 61347-2-3	Ed. 1: 2000	already started	2008	COMEX
IEC 61347-2-4	Ed. 1: 2000	already started	2008	COMEX
IEC 61347-2-5	Ed. 1: 2000	already started	2008	COMEX
IEC 61347-2-6	Ed. 1: 2000	already started	2008	COMEX
IEC 61347-2-7	Ed. 1: 2006	already started	2010	COMEX
IEC 61347-2-8	Ed. 1: 2000	already started	2007	COMEX
IEC61347-2-9	Ed.1: 2000 A2: 2006	2009	2013	COMEX
IEC 61347-2-10	Ed. 1: 2000	already started	2008	COMEX
IEC 61347-2-11	Ed. 1: 2001	already started	2008	COMEX
IEC 61347-2-12	Ed. 1:2005	A1 already started	2008	COMEX
IEC 61347-2-13	Ed. 1:2006	2008	2009	COMEX
IEC 61547	Ed.1:1995	already started	2007	MT1
IEC 61549	Ed.2:2003 (+A1:2005)	2005	2007	PRESCO
IEC 62034	2006-05	2008	2008	PT 62034
IEC 62035	Ed1::1999 (+A1:2003)	2003	2007	PRESCO
IEC 62384	Ed. 1:2006	2008	2011	COMEX

Name or signature of the secretary
Bernd Borchert