

**STRATEGIC POLICY STATEMENT**

IEC/TC or SC TC 59	Secretariat Germany	Date 2008-10
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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

TC59: Performance of household *and similar* electrical appliances

SC59A: Dishwashers

SC59C: Heating appliances

SC59D: Home laundry appliances

SC59F: Floor treatment appliances

SC59K: Ovens and microwave ovens, cooking ranges, hoods and similar appliances

SC59L: Small appliances

**A. Background****Scope**

The scope of TC 59 and its SCs is:

To prepare International Standards on methods of measurement of characteristics which are of importance to determine the performance of household and similar electrical appliances and are of interest to the consumer. This may include associated aspects related to the use of the appliances and aspects such as the classification, accessibility and usability of appliances, ergonomic characteristics and conditions for the information provided at the point of sale.

NOTE - TC 59 does not deal with appliances which are already explicitly covered by the scope of other IEC or ISO TCs  
An elaboration of the scope is given in the internal TC 59 guide: The principles of the work of TC 59 and its SCs.

NOTE –“similar” doesn’t mean appliances for industrial use

TC 59 was established: 1964.

**Working Groups:**

TC 59: CAG : Chairman advisory group

WG 2 : Acoustical noise of household appliances;

WG 8 : Hairdryers

MT 9 : Measurement of Standby power

WG11: Accessibility and Usability

WG12: Testing and rating of household refrigeration appliances

HWG1: Panel Testing

HWG2: Reproducibility

SC 59A: WG 1: Standard detergent and standard rinsing agent

WG 2 : Dishwasher tests

SC 59D: MT 14: Maintenance team for IEC 61121

MT 15: Maintenance team for IEC 60456

WG13: Test materials

MT16: Maintenance Team for IEC 60734

WG17: Global application of test methods for home laundry appliances

WG18: Uncertainty assessment of performance and consumption measurement for home laundry appliances

WG19: Reference machines and programs

WG20: Methods for rinsing-efficiency for household washing machines.

- SC 59F: WG3: Maintenance of IEC 60312  
 WG4: Methods of measuring the performance of wet vacuum cleaners  
 WG5: Methods of measuring the performance of household cleaning robots
- SC 59K: WG 1: disbanded  
 WG 2: disbanded  
 WG3: disbanded  
 MT 1: Maintenance work on IEC 60350 and IEC 60704-2-10  
 MT 2: Maintenance work on IEC 60705 and IEC TS 61902  
 MT 3: Maintenance work on IEC 61591 and IEC 60704-2-13  
 PT60350: Induction cooking systems  
 HWG1: Energy Efficiency
- SC59L: MT 1: Maintenance of IEC 60508: Methods for measuring the performance of electric ironing machines for household and similar purposes  
 MT2: Maintenance of Standards: 60442-Toasters, 60530- Kettles and Jugs, 60619-Food preparation appliances, 60661 – Coffee makers, 61254-shavers and 61817 – Grilling appliances”

## Publications

Publications issued since the last grouping meeting of TC 59 in **October 20<sup>th</sup> 2006**:

- 59F: IEC 60312 Ed 4.0, vacuum cleaner
- 59K: IEC 60350-A2 Ed 2.0, Electric cooking ranges, hobs, ovens and grills
- 59: IEC 60704-2-14-Ed1, noise, fridges and freezers
- 59: IEC/PAS 60704-2-15-Ed 1.0, noise, food waste disposers
- 59: IEC/PAS 62587-Ed1.0, Portable Household Electric Room Air Cleaners

## Members

Number of Participating countries: **21**

Number of Observer countries: **22**

Number of participating member states at TC 59-meeting: **13**

Australia, China, France, Germany, Italy, Japan, Korea, New Zealand, Norway, Sweden, Turkey, United Kingdom, United States

Number of participating member states at SC59-meetings: **15**

Additionally to participants of TC59: Austria, Denmark, Finland, Mexico, Netherlands, Russian Federation, Spain

For list of member countries of TC59 and its subcommittees see IEC website

## Liaisons

IEC/SC 3C, GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT,

ISO/TC 43/SC 1, Noise

IEC/TC 111 Environmental standardization for electrical and electronic products and systems

Liaison A: CI, EC

## **B. Environment**

### **B.1 Business environment**

#### **External environment:**

There are continuous technological developments on appliances dealt with by TC 59 and its SCs. The area covered by TC 59 is essentially an area of standard's maintenance.

However, substantial modifications of the TC 59 standards may be caused by changes of items related to the relevant standard (e.g. textiles, dishes, etc.) or changes of test materials (e.g. artificial soiling, detergents, etc.) or of reference machines (e.g. washing machines and

dishwashers).

Measurement methods for standby power are requested in connection with energy saving.

The progress of the work of TC 59 and its SCs depends considerably on the readiness of the P- and O-members to participate actively in the standardisation work (attendance at committee and WG meetings, carrying out tests, etc.). An improved support is generally wanted, see section C2.

### **Internal environment:**

The scope of TC 59 was changed in 2006 to include "similar" appliances (e.g. Commercial Catering appliances).

The "Internal Guide" had been revised and was published 2003-02-14 as 59/322/INF. It allows TC/SCs 59 to specify requirements on performance criteria, if requested and decided so by the responsible TC/SC.

Environmental aspects, handling and ease of use of the appliance may be related to the performance of appliances ("Design for all").

New measuring techniques and instrumentation should be incorporated to improve the repeatability and/or the reproducibility of the test procedures specified in TC 59 standards.

Safety, hygiene and EMC aspects are not covered by TC 59 publications

### **B.2 Market demand**

TC/SCs 59 develops standards that provide testing tools and adequate information to users of TC 59's standards: mainly manufacturers, consumers, government organisations and test institutes.

There is increasing concern on the need to develop products with reduced environmental impact and to consider the use of these products by the elderly and the disabled.

Increasing attention on environmental issues and the needs of the elderly and the disabled will have to be taken into account during standards development and maintenance.

TC 59 standards are widely adopted by national and regional standardisation bodies. CENELEC adopts TC 59 standards by "Parallel procedures". However, CENELEC develops competing standards when the IEC standards do not answer the needs of the European legislation or when the preparation of a specific standard has been rejected by TC/SCs 59.

### **B.3 Trends in technology and trade**

The main general trend in technology concern energy saving, energy labelling and other environmental matters requiring standards covering these aspects.

Due to higher relevance of IEC standards globalisation of the appropriate standards by using bigger platform with participants from all over the world is necessary.

New floor treatment techniques like wet vacuum cleaning, steam cleaning, cyclonic filtration.

Standardisation of induction cooking systems (activities in CENELEC)

New hood-products with external blower.

Movable air cleaning appliances (PAS published).

Interconnection of appliances using networking technologies (activities in CENELEC)

### **B.4 Ecological environment**

Environmental matters are currently covered by TC59 and its SCs as far as standard measurement methods for

- energy and water consumption;
- loss of detergents;
- airborne acoustical noise.

are concerned.

See also TC 59 Internal Guide 59/322/INF:2003, clauses 8 and 6

## C. Work programme

### Current work

All current projects in detail are summarised in the various working programmes

- TC 59:** CAG: Preparing strategic items for TC59 meetings  
WG 2: Acoustical Noise of household appliances  
WG 8: Performance of hair care appliances  
WG 11: Develop guidelines for the application of the ISO/IEC Guide 71 and ISO 2411 to electrical household appliances to address the needs of older persons and persons with disabilities.  
WG12: To prepare of a new global performance standard for refrigerators and freezers  
MT 9 Maintaining Standard 62301 for measuring standby power  
HWG1: Panel Testing  
HWG: Reproducibility
- SC 59A:** WG 1: To review reference detergents  
WG 2: Next edition of IEC 60436
- SC 59C:** No working group
- SC 59D:** MT 14: Working on global application of IEC 61121  
MT 15: CDV of the 5<sup>th</sup> Edition of IEC 60456 published  
WG 13: Test materials  
MG 16: working on the revision of the standard about the water to be used in testing the performance of some household electrical appliances  
WG 17: Working towards the global application and the marketing of IEC 60456  
WG 18: To reduce uncertainty of measurements of performance and consumption  
WG 19: To define characteristics for the new reference machine and reference programs  
WG 20: Definition and measurement of rinsing-efficiency of household washing machines
- SC 59F:** WG3 Maintenance of IEC 60312-1, dry cleaning vacuum cleaner covering following subjects for first edition( former called 5<sup>th</sup> edition of IEC 60312)  
a Determination of filtering efficiency  
b Additional test carpets  
c Total dust emission  
d Sustained performance  
WG4 Preparation of IEC 60312-2 on wet cleaning vacuum cleaner covering following subjects from for first edition:  
a Wet cleaning of carpets  
b Liquid capacity  
c Drying time
- SC 59K:** MT1: Maintenance of IEC 60350 to add test specifications for steamer  
MT2: Maintenance of IEC 60705 to add usable volume  
MT3 Maintenance of IEC 61591 to add down draft range hoods  
PT60350: Development of test specifications for Induction cooking systems  
HWG1: Energy Efficiency
- SC 59L:** MT1 Maintenance of IEC 60311: Irons  
To find a link between energy consumption, steam rate and sole temperature  
CDV of IEC 60311-A2 Ed 4.0 published  
MT2: Maintenance of IEC 60530, IEC 60619, IEC 60661, IEC 60442, IEC 61817 and IEC 61254

Next grouping meeting is scheduled for **2010 in Seattle**

**C.2 Resources/infrastructure needed**

National Committees are still urgently requested:

- to respond on enquiries, to comment promptly on CDs, etc.
- to consider CDs most carefully in order to avoid substantial comments at the CDV stage;
- to filter their comments concerning their relative importance;
- to participate actively in the work of TC 59 and its SCs;
- to generate necessary translations as quick as possible

**D. Future work****General work:**

- Maintenance of the existing standards and their alignment to the needs mentioned under clause B.
- Improvement of the repeatability and reproducibility of the test methods specified in TC 59 standards, as far as necessary.

**Future work of TC 59:**

- Uncertainty of measurements, for the time being considered by SC 59D.
- Quality of water to be used for testing some household appliances, for the time being considered by SC 59D
- Start of new work items:
  - Accessibility, Usability  
Work on ergonomics, Needs of elder people and persons with disabilities
  - Movable air cleaner
  - Smart home, Home electronic systems
  - Wet vacuum cleaning, steam cleaning , cyclonic filtration
  - Room air cleaners
  - Washer-dryers

**E. Maintenance cycle (to be updated, if necessary)**

Publication no.	Last Date of publication	Review date	Maintenance result date	Responsibility (Maintenance Team)
IEC 60535 Fans	1977	2008	2010	TC 59.
IEC 60665 Fans	1980	2008	2010	TC 59.
IEC 60704-2-7 Noise, fans	1997	2008	2013	TC 59 WG2
IEC 60704-2-8 Noise, shavers	1997	2006	2012	TC 59 WG2
IEC 60704-2-13 A1: Intensimetric method	2005	2010	2012	TC 59 WG2
IEC 60704-2-13 A2: External fan, published	2008	2010	2012	TC 59 WG2
IEC 60879 Fans	1986	2009	2010	TC 59
IEC 61176 Circular saws	1993	2008	2010	TC 59
IEC 61214 Spray guns	1993	2009	2010	TC 59
IEC 61254 Shavers	1993	2009	2012	TC 59
IEC 61592 T.R. Panel testing	2003	2011	2013	TC59
IEC 60299 Electric blankets	1994	2008	2009	SC59C
IEC 60379 Electric storage water heater	1986	2008	2009	SC 59C
IEC 60531 Storage room heater	1999	2008	2010	SC 59C
IEC 60675 Direct room heater	1994	2009	2010	SC 59C
IEC 61255 Household electric heating pads	1994	2009	2009	SC 59C
IEC 60456 Ed.4 Washing machines	2003	2008	2009	SC 59D/MT15
IEC 60704-2-6 Noise, tumble dryers	2003	2008	2010	SC59D WG2
IEC 60704-2-4 Noise washing machines and spin extractor	2001	2008	2010	SC59D WG2
IEC 60734 Water for appliance testing	2001	2008	2010	SC 59D
IEC 61121 Tumble dryer	2002	2008	2010	SC59D/MT14
IEC 60508 Ironing machines	1975	2010	2012	SC 59L

IEC 60312	Vacuum cleaners	2007	2007	2009	SC 59F/WG3
IEC 60704-2-1	Noise, vacuum cleaners	2000	2010	2010	SC59F WG2
IEC 60496	Warming plates	1975	2008	2012	SC 59G
IEC 60530	Kettles, jugs	1975	2010	2009	SC 59L
IEC 60619	Food preparation	1993	2009	2011	SC 59L WG3
IEC 60704-2-11	Noise, food preparation	1998	2008	2012	SC59L WG2
IEC 61309	Fat fryers	1995	2009	2010	SC 59L
IEC 60704-2-2	Noise, fan heaters	1985	2009	2010	SC59C
IEC 69704-2-3	Noise dishwashers	2001	2010	2011	SC59A WG2
IEC 60704-2-9	Noise, hair dryer	2003	2010	2012	TC59 WG2
IEC 60704-2-10	Noise, Ovens	2004	2009	2010	SC59K MT1
IEC 60705	Microwaves	1999	2009	2009	SC59K
IEC 61855	Hair dryer	2003	2010	2010	TC59/WG8
IEC 61902	Household microwave ovens, doors	1998	2012	2013	SC59K
IEC 60350: Ed.2.1, ranges ovens, hobs, grills (incl.colour ref.chart)		2005	2008	2009	SC59K MT2
IEC 61591, Ed1.1: Household range hoods		2005		2008(A2@ACDV)	SC59K
IEC 60436	Dishwasher	2004	2008	2009	SC59A MT3
IEC/TR 61923	Assessment of repeatability and reproducibility	1997	2010	2011	TC59
60704-2-14:2007	Noise fridges and freezers	2007	2008	2009	TC59
IEC62552:2007,	Fridges and freezers	2007	2010	2011	TC59

Name or signature of the secretary

P.Riller