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Title of TC

Environmental standardization for electrical and electronic products and systems

A Background

The Italian National Committee proposed to SMB on 2004-02-18 to setting up a Technical Committee on Environmental Standardization for Electrical and Electronic Products and Systems. The SMB approved the proposal (Proposal for a new field of technical activity for Environmental Standardization for Electrical and Electronic Products and Systems) on 2004-10-11 via SMB voting and consequently the new TC 111 has been created.

The SMB appointed the Italian NC as Secretariat at the SMB meeting on 2004-10-18 in Seoul.

The first meeting of TC 111 was held in Milan on 22 and 23 March 2005.

27 Participating countries and 4 Observer countries are members of TC 111.

The purpose of the TC is to deal with environmental standardization aspects, to develop horizontal standards on environmental aspects for electrical and electronic products and systems.

IEC has to handle this strategic topic in a coordinated and complete way through this TC, so that the needs of the market and of the social stakeholders are duly taken into account.

B Business Environment

B.1 General

Recently environmental issues have become more and more important globally, especially with regard to health impact, climate change, energy and natural resources protection. The range of environmental issues has widened and includes whole life cycle of products. As consequence of this awareness, regulations, company and product policies and legislative approaches have been issued and some of them have been taken effect in all major parts of the world.

In electrical and electronic equipment sector, these specifically focus on product waste management, control of use of hazardous substances and more generally chemicals, energy efficiency, and more generally speaking, environmental consideration during product and systems design...

As reference to standards has been proven fully adequate to assess regulatory compliance, they also apply to environmental consideration...Under the above circumstances, it is strongly desired to provide all stake-holders including product committees (TCs/SCs) and industries with basic and horizontal environmental standards for electrical and electronic products and systems.

B.2 Market demand

Direct customers of the standards and other deliverables developed by TC111 are technical committees of IEC including experts who develop standards and other deliverables, and also whole industries that manufacture and use electrical and electronic products and systems. It is to be avoided to include inconsistent portions among standards developed or to be developed by product TCs/SCs. TC111 will provide TCs/SCs with basic and horizontal standards, including guidelines and technical reports in the environmental area.

B.3 Trends in technology

The range of the environmental issues, including energy efficiency, will be widened due to the strong increase in environmental questions awareness, in addition to continuing progress of technologies.

Since it is anticipated that laws and regulations on environmental field will continue to be varied/ expanded, further effective guidelines and standards will be required to support these demands.

B.4 Market trends

Market will require further effective guidelines and standards since it is anticipated that laws and regulations on environmental field will continue to be varied/ expanded.

B.5 Ecological environment

TC111 is working in this area. So no explanation is necessary, refer to TC 111 scope.

C System approach aspects

Not applicable.

D Objectives and strategies

The main objective is to complete started project, re- organise the TC 111 structure in a more rational way, to assure maintenance/revision of published standards and coordination between projects.

WG 3 is restructured with the following tasks:

- Split the future standard IEC 62321 Ed.1 (DETERMINATION OF LEVELS OF SIX REGULATED SUBSTANCES (LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS, POLYBROMINATED DIPHENYL ETHERS)) into a family of standards (can be done according to substance, metric, method; at the beginning, for working purposes, according to chapters of IEC 62321)

- Revise/Maintain IEC 62321, including possible new methods and try to bring informative annexes to normative stage

- if 111/118/NP¹ (Guideline for the sampling procedure for the determination of restricted substances) is approved, the project will be assigned to WG 3 and will be numbered as part of 62321 family

- Inclusion of new substances (if the related NPs is approved)

Strategy: to fulfil the objective is necessary collaboration between WGs/PT²s to assure coordination and consistency of projects published/in preparation.

A TC Officers Support Group, composed by WG Convenors, PT Leaders, ACEA Chairman, was established and it is consulted, when necessary, by TC 111 Officers, to have support/help/suggestions on specific items.

E Action plan for

the following actions are scheduled for 2009

a) Completion of the started projects (refer to PW³)

¹ New Proposal

² Project Team

³ Program of Work

- b) Revision/Maintenance of IEC 62321 (see D) (MRD 2012)
- c) Revision/Maintenance of IEC 62430 (Environmentally Conscious Design for Electrical and Electronic Products) (MRD 2012)

d) As result of the work of HWG4 Recycling, Reuse, Recovery, 2 NPs will be circulated:

NP1: "End of life recyclability calculation for electrotechnical equipment" (111/132/NP out)

NP2: "Communication formats on recycling for electrotechnical equipment between manufacturers and recyclers"

e) Consider the future direction of IEC/PAS⁴ 62545 Ed.1 (Environmental Information on Electrical and Electronic Equipment)

F Useful links to IEC web site

[IEC/TC 111 dashboard](#) (enter 111) giving access to the TC/SC Officers, scope, liaisons, WG/MT/PT structure, publications issued, work and maintenance programme and also for the same information of SCs, if any.

Name or signature of the secretary
Andrea Legnani

⁴ Public Available Specification