



**Asia-Pacific
Economic Cooperation**

2011/SCSC/JRAC1/002

Agenda Item: 9C

IECEE: Taking Conformity Assessment Further

Purpose: Information
Submitted by: IECEE



**Joint Regulatory Advisory Committee on
Electrical and Electronic Equipment Meeting
Chicago, United States
24 May 2011**



INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

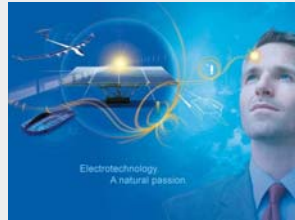


WORLDWIDE SYSTEM FOR CONFORMITY
TESTING AND CERTIFICATION OF
ELECTRICAL EQUIPMENT AND COMPONENTS



IECEE: Taking Conformity Assessment Further

Latest development in Conformity
Assessments under the IECEE System



By Pierre de Ruvo
Executive Secretary
of the IECEE



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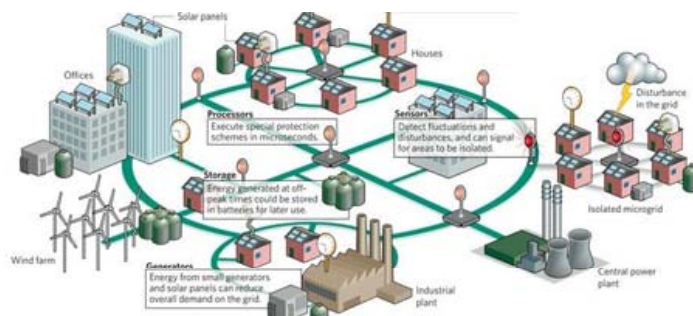
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SMART GRID



It has been agreed to establish a Sub-Working Group 2-A “SMART GRID” assigned to particularly explore potential and yet practical conformity assessment applications in the field of “Smart Home”, “Smart Building” and “ Smart Industry (Factory).

Sub-Working Group 2-A “SMART GRID” will report to the IECEE WG 2 “Business Development”.

Note: SMART GRID may include smart electric or power grid, intelligent grid (or intelligrid), futuregrid, and the more modern intergrid and intragrid.

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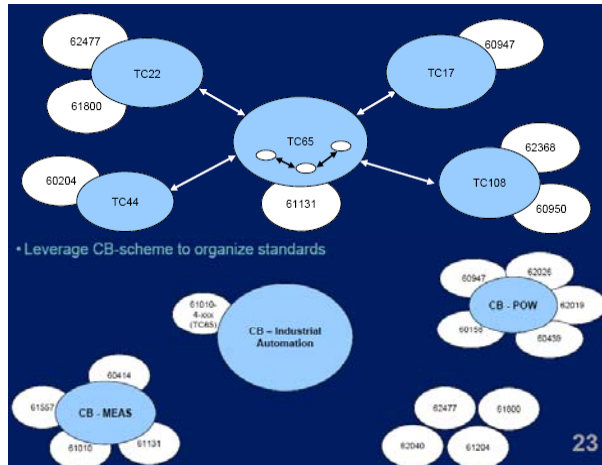
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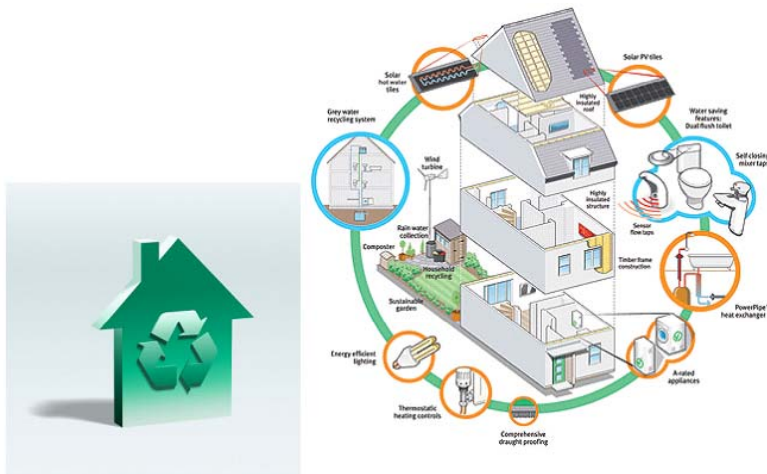
* Leverage CB-scheme to organize standards

It has been agreed to establish a Sub-Working Group 2-B “INDUSTRIAL AUTOMATION” assigned to particularly follow up the work undertaken by TC 65 and the outcome of CDV IEC 61010-2-201 that is in preparation. In case of a positive vote it is expected that the publication of IEC 61010-2-201 be effective in early 2012. Sub-Working Group 2-B “INDUSTRIAL AUTOMATION” is also tasked to draft the Test Report Form in due time before the publication so as the IECEE System could launch the new services under the Product Category “Industrial Automation” INDAT.

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LAUNCHING THE ENERGY EFFICIENCY/PERFORMANCE SERVICE



It has been resolved that all conditions are met both in the market place and within the IECEE System to start launching the conformity assessment services over Energy Efficiency/Performance on products falling under published IEC Standards that are already operated by the IECEE System in the safety field. (See Annex 1 to this Report).

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STAND ALONE ENERGY EFFICIENCY/ PERFORMANCE SERVICE



It has been agreed that this conformity assessment, as a “stand alone” service, be provided through the issuance of a Test Reports, by IECEE Member CBTLs, validated by Statement of a Test Result issued by IECEE Member NCBs.

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STAND ALONE ENERGY EFFICIENCY/ PERFORMANCE SERVICE



TRF IEC 60705 PERFORMANCE

STR

Test Report issued under the responsibility of:

TEST REPORT
IEC 60705
Household microwave ovens - Methods for measuring performance

Report Number:
Date of Issue:
Total number of pages:
CBTL Testing Laboratory:
Address:
City:
Country:

Test specification
Standard: IEC 60705:2010 (EN:2010)
Test standard: CE Marking
Was standard fulfilled: YES
Test Report Form No.: 001/004
Test Report Form(s) Originator: IEC or Originator
Market TRF: IEC 60705

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This report is valid only as a TRF Report unless explicitly approved by the issuing laboratory and is subject to a TRF Test Certificate issued by an NCB in accordance with IECEE IS.

Test Item Description:
Test Item:
Manufacturer:
Model/Type:
Part No:



STATEMENT OF TEST RESULT

Model:
Date of Issue:
Total number of pages:
CBTL Testing Laboratory:
Address:
City:
Country:

Test Item Description:
Test Item:
Manufacturer:
Model/Type:
Part No:

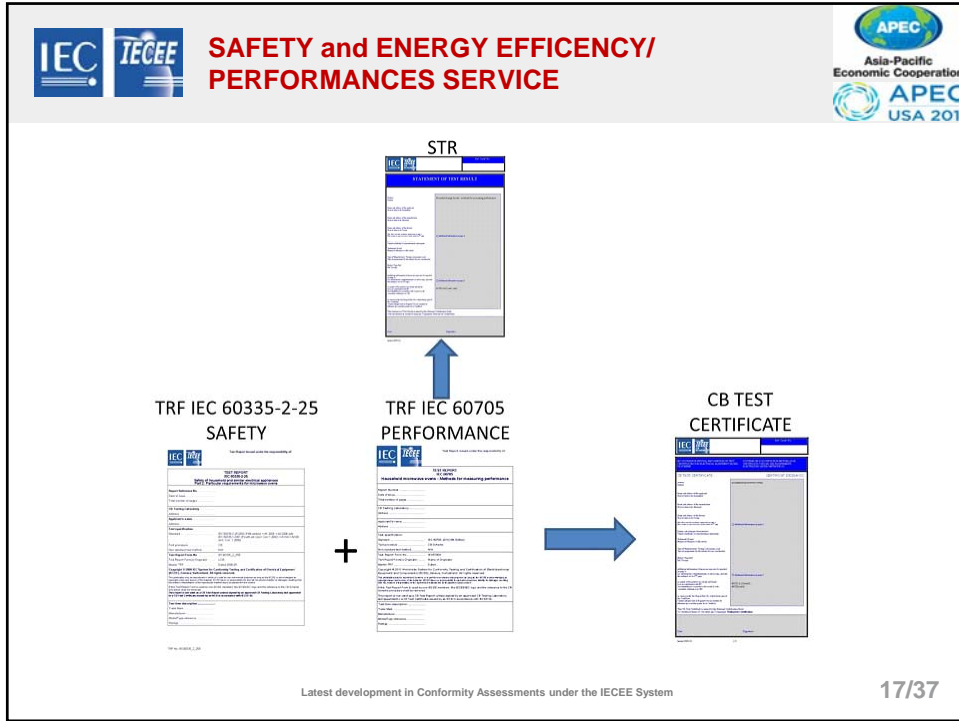
Signature:

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It has been agreed that this conformity assessment service, when provided together with “Safety Aspects” of the relevant standard(s) be provided through the issuance of a Test Reports, by IECEE Member CBTLs, validated by Statement of a Test Result and included in the relevant CB Test Certificate or the FCS Certificate issued by IECEE Member NCBs.



IEC **IECEE** **Contents**

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Asia-Pacific Economic Cooperation
APEC
USA 2011

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NATIONAL/REGIONAL SCHEME FOR ENERGY EFFICIENCY



It has been agreed to further explore the Market and determine the existing updated information about national/regional Energy Efficiency conformity assessment programmes, the standards and requirements used and prepare a survey that identifies the differences that exist as compared to the relevant IEC Standards.

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NATIONAL/REGIONAL SCHEME FOR ENERGY EFFICIENCY



The ultimate goal is to possibly consider covering these other requirements that exist at national/regional level in addition to the requirements of the IEC Standards in order to facilitate trade in the global market.

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It has been considered the potential activity for Certification of Personnel in the field of installation of Photovoltaics and recognized that there are programmes in the field that are aiming at certifying Personnel that is tasked to assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics.

http://www.youtube.com/watch?feature=player_detailpage&v=SB0ZUsHkGGY



CERTIFICATION OF PERSONNEL – PHOTOVOLTAICS



Although it has been recognized that Educational Programmes are already in place in many parts of the World and that some IECEE Members do actually provide such services, WG 2 could not lead to any practical recommendation to start either an educational programme or a Certification of Personnel at this stage as the first thing to do is to survey the IECEE Member capability and resources to offer such service as part of the IECEE philosophy, to provide a global service and to facilitate trade.

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It has been considered the potential activity for Certification of Personnel installing/operating Medical Equipment and recognized that although it is a reality that Doctors and Operators of Medical Equipment such as X-Ray may need to follow an educational programme to protect themselves from Risk Hazards and that there is a clear need to assess the medical needs of hospitals and health centers as well as the availability of experts to install the equipment and its maintenance, WG 2 did not have a complete picture of the market needs.

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WG 2 agreed to further explore the market and further monitor on an on-going basis whether the IECEE System could offer any such service in future.

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INTEROPERABILITY



In the field of interoperability the major challenge is to integrate interchangeable parts from a variety of different providers worldwide and that there is a huge need for interoperability standards that will allow utilities to buy pieces of equipment from any vendor knowing that they will work with each other and with existing equipment at every level.

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INTEROPERABILITY



It is not simply about interfaces – one plug fitting with another – interoperation at all levels in a given system is needed to speak the same language and also have the same understanding (each other's) "thought" processes.

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INTEROPERABILITY



WG 2 agreed that instead of imposing detailed technical specifications at a global level IECEE should focus on key interfaces. This is how efficient standards for interoperability are creating a huge area of freedom and innovation for the benefit of manufacturers and the utilities.

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FUNCTIONAL SAFETY and IEC 61508



It has been acknowledged that systems comprised of electrical and/or electronic elements have been used for many years to perform safety functions in most application sectors. Computer-based systems (generically referred to as programmable electronic systems) are being used in all application sectors to perform non-safety functions and, increasingly, to perform safety functions.

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It was also recognized that Functional safety is a concept applicable across all industry sectors. It is fundamental to the enabling of complex technology used for safety-related systems. It provides the assurance that the safety-related systems will offer the necessary risk reduction required to achieve safety for the equipment.

Medical devices and Household appliances, to name but a few, all rely heavily on functional safety to achieve safety for the equipment/products giving rise to the hazards.

WG 2 agreed to explore further Functional Safety as part of the IECEE System services.



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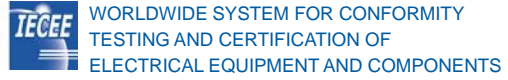
ENERGY EFFICIENCY RATING



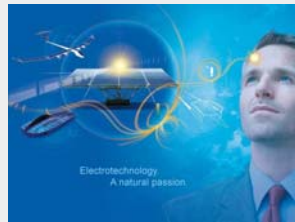
In the field of Energy Efficiency IECEE might consider funding Fora of NGO & Academia to discuss and exchange experience over a classification system based on an algorithm that would provide the market with a standardized system to rate the Energy Efficiency, e.g. consumption, of Electrotechnical products.

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