

Asia-Pacific Economic Cooperation

7th Conference on Standards and Conformance

August 10-11, 2008 Cusco, Peru

Sub-committee on Standards and Conformance APEC Committee on Trade and Investment

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Prepared by:

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 Pacific Accreditation Cooperation (PAC) and Import Safety, <i>Mr David Shortall, Pacific Accreditation Cooperation (PAC)</i> The global accreditation network is presented, as well as additional information on PAC. MLAs are discussed, including how they assure import safety; the relationship between MLAs and the regulatory regime; and the Product MLA. 	39
 ISO Project Committee 242 Energy Management, Mr Gary Kushnier, Pacific Area Standards Congress (PASC) The presentation gives a history of how the Committee's work began via a request from UNIDO to ISO, and how one PASC member, ANSI, and one Pan American Standards Commission (COPANT) member, ABNT-Brazil, have partnered in leading this activity, which will develop a standard that will address strategic management of energy to include energy supply, procurement practices for energy using equipment and systems, energy use, and any use-related disposal issues. The goal is to produce a published International Standard by late 2010, with the first meeting of the project committee taking place in September 2008. 	49
 I.4 The role of metrology in energy conservation, <i>Ms Ding Zhuyin, Asia Pacific Legal Metrology Forum (APLMF)</i> Energy measurement refers to the testing, measuring, calculating and statistical analysis of all parameters (quantity, quality, performance, etc.) occurring during the process of energy utilization. It is also the basis of assessing energy users for their performance of minimizing energy consumption. 	59
 I.5 Measurement role in the development of national initiatives on food safety Dr Laurie Besley, Asia Pacific Metrology Programme (APMP) Two issues are addressed, namely the protection of food consumers in one's own country and how this relates to public health, and acceptance by international markets of each nation's export products in food, and how this related to trade. Traceability is presented as a key factor to improving food safety in that the measurement result can be connected to some accessible reference of known accuracy. 	67
 Pathology laboratory testing in the health sector, Ms Karen Hitchiner on behalf of Dr. Helen Liddy, Asia Pacific Laboratory Accreditation Cooperation (APLAC) The presentation addresses the importance of pathology testing from an international perspective, quality in the pathology laboratory, implementation, accreditation and the APLAC MRA, concluding with veterinary testing which is the other half of the equation regarding pathology laboratory testing 	79
 Introduction to International organizations and their roles in facilitating international trade, <i>Ms Rosario Uría, Project Overseer, INDECOPI, Peru</i> The presentation gives an overview of both the International Standards Organization (ISO) and the International Electrotechincal Commission (IEC), noting their activities and scopes of work. 	91

certifica	IECEE CB Scheme – Taking Conformity Assessment Further, <i>Mr Pierre De Ruvo, Executive Secretary General, IECEE</i> CEE is under the IEC Conformity Assessment Board, and it is the system for conformity testing and tion of electrotechnical equipment components. Under the IECEE is the CB Scheme, which is mutual tion of test results. The presentation went into detail regarding the IECEE CB Scheme, noting its uccess.	99
efficienc	Responding to the global and related challenges of climate change, energy, water and nutrition, <i>Mr Alan Bryden, ISO Secretary - General</i> addressing the global challenges being faced in many areas regarding climate change, energy cy, water and nutrition. The presentation noted that there is an increasing demand for consensus international Standards in these fields, and that ISO is meeting the challenge on many fronts.	147
	n II: Standards and Conformance Education- Challenges for contents ook development and network cooperation in APEC region	161
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on the c project, research	APEC SCSC Education Initiative: Raising issues – Where should we go? <i>Mr Teo Nam Kuan (moderator) Group Director, Quality and Standards, SPRING, Singapore / Mr.</i> <i>Donggeun Choi, Senior Standards Analyst, Korean Standards Association</i> esentation provides an overview of what APEC SCSC has done for standards education, briefing objectives and scope of APEC SCSC Education Initiatives including the outcome of phase I of the and introducing the session, 'How to integrate research into education', specifically how to integrate h outputs into education textbook contents and how to integrate the research community with policy location communities.	167
encoura sectors standard oversea dedicate and inte	The economic Impact of Standards, <i>Mr John Tucker, Chief Executive Officer, Standards Australia</i> in outcome of an Australian study on the economic impact of standards is discussed. The presentation ages member economies to develop and share case studies on the impact of standards on particular (e.g. building, environment, electronics, etc), to cross sectoral impacts from management or process ds, to gather and share statistics on the impact of standards on innovation, to monitor and replicate is economic benefit of standards studies, and to share the findings, to note that ISO has a website ed to posting such economic benefit studies, sectoral case studies, statistical evidence, key domestic ernational reports; and to add their own contributions to this site and to access this valuable stock of age and information.	187
impact of oriented betweer "positive	The Economic Value of Standardization in Canada, <i>Mr Stephen Head, Senior Policy Analyst, Standards Council of Canada</i> undards Council of Canada retained the Conference Board of Canada to undertake a study on the of standardization on the Canadian economy. The study undertook the review of the standards- d economics literature, an empirical analysis of the impact of standards on Canadian productivity in 1981 and 2004, interviews with industry leaders, and two case studies. The findings confirmed the e and significant" impact of standardization and labor productivity in Canada. The study also provided rty verification of the qualitative benefits of standardization.	193
achievin	Economic and Social Effects of Standardization, <i>Mr Shigekazu Fukunaga, Deputy Director, Technical Regulations, Standards and Conformity</i> <i>Assessment Policy Unit,METI, Japan</i> esentation addresses the fact that Standardization can work as a function for business activity, ng social objectives, promoting mutual understanding, and promoting trade. The presentation also s and gives examples of the types of standards and their categorization.	205
value of provides and sta	The Value of Standards and Standards Education, <i>Ms Erin Grossi, Manager of International Affairs, Underwriter Laboratories, United States</i> re shared on the importance and economic value of standards, standards as problem-solving tools, f consensus standards, standards and Innovation, and standards education. The presentation also is the vision for APEC about standards education as the venue to share information about standards ndards education needs and capabilities; the network to tap for assistance with standards and mance information and development of standards education infrastructure; the group of experts capable	215

of setting priorities for standards education and outreach; the community of practice sharing experiences and training each other to continually improve the development and delivery of standards education for a variety of stakeholders.

II.6 Introducing standardization as an Input for Innovation in high level education in Peru. *Mr Augusto Mellado, President, National Council of Science, Technology and Technological Innovation, Peru*

An overview of the Peruvian Educational System is given and there is a presentation of an educational program on standardization which will be implemented in Peru and is at this time in a preliminary phase. The goal of the program is to increase competitiveness and innovation in the country. The program involves education on standardization at all levels, with emphasis on professional education for standards application. 225

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II.7 Standards Education,

Mr John Hill, Vice Chair, International Cooperation for Education about Standardization The presentation discusses ICES' many achievements and its plans for a bright future. Additionally, it outlines some suggested actions APEC should take to further the goals of education about standardization. It highlights the fact that the International Cooperation on Education about Standardization (ICES) has shown enormous success since its beginnings in 2006, and that the work of its participants is considered important all over the world.

II.8 European Academy for Standardization,

Ms Françoise Bousquet, Vice President, European Academy for Standardization EURAS' objective is to promote research and education in the field of standardization. Most EURAS members are researchers from different academic disciplines, but industry, governments and standards bodies are represented as well. While EURAS emphasizes the need for European co-operation, it is internationally oriented and welcomes the participation from and collaboration with colleagues from other regions. The presentation also explains that EURAS offers a platform for exchanging information, collaboration and dissemination. It is a network of experts who share common interests, projects, initiatives, papers.

II.9 Summary Recommendations to APEC: Textbook Development and Networking for Education about Standards and Conformance

Session III: Trade facilitation257Overview259Speakers260III.1Introduction to the TFTF Seminar impact of environmental regulations, standards on trade facilitation in APEC,
Ms Julia Doherty, TFTF Co Chair, USA263APEC members share the objective of protecting the environment, but there are many environmental
regulations being implemented or updated, particularly in the European Community, that have an impact on
trade in the region. APEC members are working in standards organizations like IEC to try to minimize the

III.2 EU RoHS Directive – Next Revision,

Ms Beth A. Hulse, Global Regulatory Manager, GE Healthcare, USA

impact. It is also important to avoid unnecessary barriers to trade when developing regulations.

Revision of RoHS is due in 2010; potential changes are under review in the EC. These changes include bringing medical devices and monitoring and control devices into the scope of RoHS; restricting additional hazardous substances; eliminating exemptions and considering new exemptions. It could also have impact on quality, reliability and safety of products, and pose challenges to the healthcare industry. Non-compliance with RoHS is a serious problem, due in part to differences in EU member state enforcement.

III.3 Singapore's Initiatives to support industries for RoHS and REACH

Ms Rachel Choy, Manager Quality Assurance Services, SPRING, Singapore 291 SPRING Singapore has developed several initiatives to support SMEs ability to be compliant to RoHS and REACH. The Export Technical Assistance Centre (ETAC) provides assistance to Singapore companies on technical barriers, track regulations and developments, on promoting awareness and identify testing and certification needs. Challenges for RoHS compliance for Singapore's exporters include finding suitable substitutes, lack of compliance management systems, difficulties in understanding requirements and demonstrating compliance and the lack of harmonization of RoHS requirements across differing country regulations.

III.4 The EuP Directive and Implementing measure,

Mr Takao Sato, Ricoh Company, Ltd. from Japan on behalf of Mr. Kun-Mo Lee, TFTF Co Chair, Korea The EuP Directive covers energy efficiency and eco-design, but many manufactures have no experience on these issues. Compliance with EuP will be conveyed through the CE mark, and member states will be obliged to ensure that only conforming products are placed on the market. The implementing measure provides detailed instruction as to the significant environmental aspects and life-cycle stages, environmental parameters, etc. The first implementing measure – that for eco-design requirements for stand-by and offmode electrical power consumption of electronic and electrical household and office equipment – was voted on July 2008 by regulatory committee.

III.5 Preparations and actions being taken in Japan for EU Environmental Regulation, REACH,

Mr Takao Sato, General Manager, Corporate Environment Division, Ricoh Company, Ltd, Japan Preparations and actions being taken in Japan to implement EU REACH are underway. These will be very large new burdens for article suppliers, and the supply chain will have difficulty coping with this burden through conventional approaches. Japan is taking strong leadership in IEC TC-111 (Environment) WG1 is working on Material Declaration and relevant database. Since TC111 output will take some more time, JAMP (Joint Article Management Promotion Consortium) has proposed a cross-industrial scheme to encourage middle to upstream suppliers to provide information to downstream users. Companies in Japan are asking their suppliers to join the JAMP system.

III.6 U.S Industries Experience with REACH,

Mr Jim De Lisi, President, Fanwood Chemical Inc, USA

U.S. industry concerns with REACH include that it is implementing rules that are still in transition, and ECHA's ability to effectively administer these complicated regulations is not clear. REACH may impede industry's ability to get materials that are critical for product performance and safety. Further, industry is concerned by the costs associated with REACH, including registration, OR and Seif fees, data and testing costs, among others. REACH implementation also carries serious implication for intellectual property and anti-trust concerns. Lack of clarity in REACH requirements pharmaceuticals and cosmetics cause particular difficulties for these industries as well. U.S. industry expects REACH implementation will cause product substitution and withdrawals, and will impact domestic and export sales of non-EU materials. Also, the candidates list will potentially become a "banned" list.

III.7 Thailand response to the EuP,

Mr Charuek Hengrasmee, President, Electrical and Electronic Institute, Thailand

As a response to EuP, Thailand has the vision to become the leader in Southeast Asia of electronics manufacture and has completed several projects around EuP to help achieve this goal with support from the EU to complete these tasks. The electronics industry wants to be in the wave of the global trend towards a green-based economy. To this end, it is building awareness of the standards and conformity issues related to eco-design and green regulations. To achieve its vision, Thailand's electronics industry developed a working group on capacity building that established where it wanted to be in the next 5 years. This group recognized that it will have to comply with the various environmental regulations to be a major global player in green electronics.

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Speake	rs	358
IV.1	Importance of the ABAC - SCSC Dialogue: encouraging future cooperation on standardization and conformance in APEC economies according to the needs of business <i>Mr Augusto Mello, SCSC Chair</i>	359
	ABAC Standards Agenda – APEC Food System, <i>Mr Geoffrey Brennan, Executive Director, ABAC Australia</i> sentation discusses the work of ABAC on standards. This is based on the recognition by ABAC of the nce of standards and conformance for business in the region. ABAC has looked at various aspects	361

importance of standards and conformance for business in the region. ABAC has looked at various aspects of the management of a more effective framework for standards in the region. The presentation also looks as new areas of cooperation and at the role of KPIs in meeting the goal of the TFAP II.

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<i>Ms</i> There has b Contact Poi the project (bort of ABAC initiative project on Critical Infrastructure and Support Systems Standardization, Karen Hitchiner, Manager for International Development, Standards Australia een a very positive response to the call for APEC Member Economies to nominate key national	
workshop is	hts and Deputies for the project. 19 APEC Member Economies have agreed to participate in 20 including Australia). Given that data has already been collected for Australia in the Security nd Support Systems (4S) project leading up to this initiative, this is an excellent result. The ng workshop will be held at the Sheraton Hanoi Hotel on 27 August 2008. The purpose of the to provide training to key national Contact Points on how to conduct the CISSS Survey in their Member Economy.	
AP <i>Mr</i> The work of the ways in	ernational Standardization for the Petroleum and Natural Gas Industry / Possible Cooperation of EC Members With OGP/SC and ISO/TC-67 <i>Wilson Barbosa, International Association of Oil and Gas Producers / Standards Committee</i> Oil and Gas Producers / Standards Committee (OGP/SC) and ISO/TC-67 is presented, noting which APEC could cooperate with OGP/SC and ISO/TC-67 and the benefits offered by OGP to . It is noted that OGP promotes the development and use of international standards (ISO and	
<i>Ms</i> Chile's Nati Efficiency C sectors and as basis of t	lean Standard of Energy Efficiency: bases for regulations and its impact in the national industry, <i>Claudia Cerda, Standardization Division, Chilean Standards Body</i> onal Standardization Institute is regarded with the national procedure for the study of Energy nilean Standards. There is an explanation about the joint venture between the private and public the common interest between the Competent Authority and INN in consider Chilean Standards ne Efficiency Regulations. On the other hand, the beginning of Efficiency Regulations related to efficiency label take with itself an impact in the national industry of refrigerators.	
<i>Mr</i> This presen implementir prices. In the	e use of standards and its impact in the agribusiness sector: the Peruvian experience, Augusto Mello, Head, Peruvian Standards Body, INDECOPI, Perú ation focuses on two important Peruvian export products: Coffee and asparagus. It shows how g standards helped to improve quality and consequently, to access demand markets with better se successful experiences it proved important to consider the following key factors: Involvement zation of all stakeholders, Strategic alliances: Private and public sectors, and International ion.	





Foreword Jaime Thorne Chairman of the Board National Institute for the Defense of Competition and the Protection of Intellectual Property - INDECOPI

In name of the National Institute for the Defense of Competition and the Protection of Intellectual Property, INDECOPI, I would like to express our deep gratitude to all who have made possible the 7th Conference on Standards and Conformance, which took place on 10 and 11 August 2008, in the city of Cusco, Peru.

In particular, my appreciation goes to the Sub-Committee on Standards and Conformance, for trusting us with the hosting of this important bi-annual Conference, to our co-sponsors, Chile, Japan, the United States of America, and Vietnam for their support, as well as to all speakers for making this event of the highest technical level.

I would like to specially thank our Project Overseer, Ms. Rosario Uria, INDECOPI's Standards Coordinator, and her team, for successfully undertaking the task of putting together this Conference, where over 25 speakers participated. We believe that this year's Conference has provided an important forum to share and learn from each other on trade related standards and conformance issues.

The Conference has allowed for the discussion of important topics that are of special interest to APEC member economies, such as trade facilitation and education and has shown the positive development of standards and conformance in our region. I thank you all who participated in the 7th Conference on Standards and Conformance, and trust that the outcomes of this event will contribute to provide guidance to the actions and activities of APEC's Sub-Committee on Standards and Conformance.

I am sure the presentations of the speakers and panelists contained in this Compendium will encourage a more critical look at the opportunities around APEC today and will prompt us to join efforts towards making the APEC region a stable market place without technical restrictions to trade.

Preface

Since 1996, the Sub-Committee on Standards and Conformance has held the Conference on Standards and Conformance every two years, to provide a space where representatives from government and non government institutions, academia, the private sector and the business community may exchange knowledge, practices and experiences on matters related to Standards and Conformance which are of interest to APEC member economies and which will promote trade facilitation.

This year, the 7th Conference on Standards and Conformance was organized by Peru, as APEC's host economy, with the support of the Trade and Investment Liberalization and Facilitation Fund (TILF), under project CTI 21/2008T. The project was undertaken by the National Institute for the Defense of Competition and the Protection of Intellectual Property – INDECOPI, which embodies the Peruvian Standardization and Accreditation authorities.

This Compendium of the 7th Conference on Standards and Conformance, held in the City Council Convention Center in Cusco, Peru on 10 and 11 August 2008, contains all papers and presentations of the event. It also presents the outcomes and recommendations for future work drawn from the four sessions which make up the Conference, namely (i) Standards and Conformity Assessment – Specialist Regional Bodies and International Organizations; (ii) Standards and Conformance Education – Challenges for contents in textbook development and network cooperation in APEC region; (iii) Trade Facilitation; and (iv) The Dialogue SCSC – ABAC and Business.

The Conference was attended by over 110 participants, coming from 19 member economies: 56 % from the public sector, 27 % from private sector and the remaining 17 % came from different organizations. There were 27 experts invited to participate as speakers at the Conference, 22 came from member economies, and 5 were non-member speakers (ISO, IEC, EURAS, ICES and OGP/ SC). A short presentation of each one of them may be found in this Compendium.

The organization of this Conference has been a very rewarding experience and an opportunity to meet and interact with exceptional professionals who have made a decisive contribution to the outcomes of the Conference. In particular, I would like to express my sincere appreciation to speakers, session coordinators, and INDECOPI's technical support team for their involvement and commitment to the success of the Conference. Also, my gratitude and appreciation go to APEC Secretariat, CEAN (Peru's APEC 2008 Commission), and INDECOPI for their support and close cooperation in the administrative and logistical matters of the Conference.

Lima, 1st September 2008

Rosario Uría Toro Project Overseer

Standardization and non tariff barriers Surveillance Commission National Institute for the Defense of Competition and the Protection of Intellectual Property of Peru INDECOPI





Final Agenda 7th Conference on Standards and Conformance 10-11 August

Cusco City Council Convention Center

Cusco, Peru

09:00: 09:10	Introduction and welcome			
Occurring t		Mr. Augusto Mello, SCSC Chair		
Session 1	Standards and conformity Assessment - Specialist regional Bodies and International organizations			
Time	Topic	Speaker		
09:10 - 09:20	Introduction to specialist RegionalMs Rosario Uría, ProjectBodies and their rolesOverseer, INDECOPI, Peru			
09:20 - 09:40	Pacific Accreditation Cooperation (PAC) Mr David Shortall, Pacific and Import Safety Accreditation Cooperation			
09:40 – 10:00	Standardization in the field of Energy Management and Implementation of a measurement scheme	Mr Gary Kushnier , Pacific Area Standards Conference (PASC) Ms Ding Zhuyin, Asia Pacific Legal Metrology Forum (APLMF)		
10:00 - 10:20	Measurement role in the development of national initiatives on food safety	Dr Laurie Besley, Member Executive Committee-Asia Pacif Metrology Programme (APMP)		
10:20 – 10:40	Pathology laboratory testing in the health sector	Ms Karen Hitchinier on behalf of Dr Helen Liddy, Asia Pacific Laboratory Accreditation Cooperation (APLAC) Secretary		
10:40 - 11:00	Questions and answers			
11:00 – 11:30	Morning b	reak		
11:30 -11:40	Introduction to International organizations and their roles in facilitating international tradeMs Rosario Uría, Pr Overseer, INDECOR			
11:40 – 12:00	IECEE CB Scheme – Taking Conformity Assessment Further	Mr Pierre Ruvo, Executive Secretary IECEE		
12:00 -12:20	Responding to the Global and Related Challenges of Climate Change, Energy, Water and Nutrition	Mr Alan Bryden, ISO Secretary- General		
12:20 - 12:40	Questions and	answers		
12:40 - 14:00	Lunch	1		

Session 2	Standards and Conformance Education- development and network co			
Panel 1	What to teach about Standardization?			
Time	Topic	Speaker		
14:00 – 14:10	Issue Briefing: What to Develop and Why/How to Cooperate in APEC?	Mr Teo Nam Kuan (moderator), Group Director, SPRING, Singapore Mr Donggeun Choi, Senior Standards Analyst, Korea		
14:10 – 14:25	The economic Impact of Standards	Mr John Tucker, CEO, Standards Australia		
14:25 - 14:40	The Economic Value of Standardization in Canada	Mr Stephen Head, Senior Policy Analyst, Standards Council of Canada		
14:40 – 14:55	Economic and Social Effects of Standardization	Mr Shigekazu Fukunaga Deputy Director Technical Regulations, Standards and Conformity Assessment Policy Unit Ministry of Economy, Trade and Industry		
14:55 – 15:15	Questions and answers			
15:15 – 15:45	Afternoon break			
15:45 – 16:00	The Value of Standards and Standards Education	Ms Erin Grossi, Underwriter Laboratories		
16:00 –16:15	Introducing standardization as an Input for Innovation in high level education in Peru	Mr Augusto Mellado, President, National Council of Science, Technology and Technological Innovation- CONCYTEC, Peru		
16:15 – 16:30	Standards Education	Mr John Hill, Chief Standardization Strategy Officer, Sun Microsystems (ICES)		
16:30 – 16:45	European Academy for Standardization Ms Francoise Bousquet			
16:45 – 17:05	Questions and answers / Final Conclusions (Mr Donggeun Choi, Korea)			
	Monday 11 August			
Session 3	Trade facil	itation		
Time	Topic	Speaker		
09:00 – 09:10	Introduction to the TFTF seminar impact of environmental regulations, standards on trade facilitation in APEC	Ms Julia Doherty, TFTF Co Chair, USA		
09:10 – 09:30	EU RoHS Directive - Next Revision	Ms Beth A Hulse, Global Regulatory Manager, GE Healthcare, Environmental Products & RoHS		
09:30 - 09:50	Singapore's initiatives to support industries for RoHS and REACH.	Ms Rachel Choy, Manager Quality Assurance Services Spring, Singapore		
09:50 - 10:10	The EuP Directive and Implementing measure	Mr Takao Sato on behalf of Mr. Kun-Mo Lee, TFTF Co Chair, Korea		
10:10 – 10:30	Morning b	break		
10:30 – 10:50	Preparations and actions being taken in Japan for EU Environmental Regulation, REACH	Mr Takao Sato, Ricoh Company Ltd, Japan		
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		Mr Jim De Lisi, Fanwood Chemical Inc,	
10:50 – 11:10	U.S. Industries Experience with REACH	USA	
11:10 – 11:30	Thailand response to the EuP	Mr Charuek Hengrasmee, President, Electrical and Electronic Institute	
11:30 – 12:00	Questions and Answers / Closir	ng (Ms Julia Doherty, USA)	
12:00 - 14:00	Lunch	1	
Session 4	The Dialogue SCSC - A	BAC and Business	
<u>Time</u>	Topic	Speaker	
14:00 – 14:10	Importance of the ABAC - SCSC Dialogue: encouraging future cooperation on standardization and conformance in APEC economies according to the needs of business	Mr Augusto Mello, SCSC Chair	
14:10 – 14:30	ABAC Standards Agenda – APEC Food System	Mr Geoffrey Brennan, ABAC Australia	
14:30 – 14:50	Benefits of accreditation and conformity assessment for business	Ms Karen Hitchiner on behalf of Dr. Helen Liddy, Asia Pacific Laboratory Accreditation Cooperation (APLAC) Secretary	
14:50 – 15:10	Report of ABAC initiative project on Critical Infrastructure and Support Systems Standardization	Ms Karen Hitchiner, Standards Austra	
15:10 – 15:40	Questions and	Answers	
15:40 – 16:10	Afternoon break		
16:10–16:30	International Standardization for the Petroleum and Natural Gas Industry / Possible Cooperation of APEC Members With OGP/SC and ISO/TC-67.	Mr Wilson Barbosa, International Association of Oil and Gas Producers/ Standards Committee (OGP/SC)	
16:30 –16:50	Chilean Standard of Energy Efficiency: bases for regulations and its impact in the national industry	Ms Claudia Cerda, Chilean Standards Body INN	
16:50 – 17:10	The use of standards and its impact in the agribusiness sector: the Peruvian experience	Mr Augusto Mello, Head, Peruvian Standards Body- INDECOPI	
Time	Topic	Speaker	
17:10 – 17:25	Questions and	Answers	
17:25 – 17:35	Conclusions Dialogue SCSC – ABAC and business	Mr Teo Nam Kuan, SCSC Vice Chair	
17:35 – 17:45	7 th Conference on Standards and conformance conclusions	Ms Rosario Uría, Project Overseer, INDECOPI, Peru	
17:35 – 17:45	Closing	Mr Jaime Thorne, Chairman, INDECOF	

Opening Speech 7TH Conference on Standards and Conformance Mr Augusto Mello – SCSC Chair

SCSC Delegates, Speakers, Ladies and Gentlemen

It is my pleasure to welcome all of you to the Seventh Conference on Standards and Conformance. As many of you know, this Conference is held every two years and it represents an opportunity to further explore the role of SCSC in promoting work in standards and conformance, in accordance to the needs and expectations of Business in the APEC region.

Standardization and conformity assessment facilitate international trade by helping to reduce or remove technical barriers to trade. Thus, standards and conformity assessment support achievement of the APEC Bogor goal of free and open trade in the region (i) through the reduction of business transaction costs; and (ii) by promoting knowledge and expertise transfer from developed to developing economies.

However, achieving this Bogor goal lies not only on the will of APEC leaders, but more so on the commitment of three main agents: Business, Government and Consumers.

• Business, through their active participation in international standardization and conformity activities to harmonize technical and procedural criteria, and to take part and contribute in the process of promulgating mandatory requirements;

• Government, by setting sound policies in each economy that allow for and promote the use of international standards and internationally accepted conformance practices to meet trade and regulatory needs; and

• Consumers, by increasing their demand for safe, high quality products and by participating in the development of standards.

It is the objective of this Seventh Conference on Standards and Conformance to encourage stakeholders to actively contribute to trade facilitation through their involvement and commitment.

To achieve this, the two-day conference has been divided into four sessions which will raise issues of great interest for the APEC region: the first session will deal with the contribution of Specialist Regional Bodies and International Organizations to facilitating international trade and supporting a multilateral trading system for APEC economies.

This afternoon, the second session will discuss the importance of education on standards and conformance, focusing on the economic and social value of standardization and on networking and cooperation in the APEC region.

Session 3 will discuss Trade Facilitation, focusing on the impact of environmental standards, product related environmental regulations and conformity assessment procedures in order to enhance technical cooperation and promote trade facilitation.

Tomorrow afternoon, the fourth session will be held: The Dialogue with Business and ABAC (the APEC Business Advisory Council), which is aimed at encouraging future cooperation on standardization and conformance in APEC economies, according to the needs and expectations of Business in the region.

I am sure this two-day conference will prove to be beneficial to all of us and I hope that the discussions will provide a new drive for further APEC work in standards and conformance.

I wish you all a rewarding stay in Cusco, capital of the Inca Empire, which holds many enchanting sites that I hope you have a chance to visit and explore.

Have a good day, thank you.



Asia-Pacific Economic Cooperation

Document Classification List 7th Conference on Standards and Conformance Submitted by: APEC Secretariat



Document No.	ument No. Title		
2008/SOM3/SCSC/CONF/ 001	Document Classification List	APEC Secretariat	
2008/SOM3/SCSC/CONF/ 002	Final Annotated Agenda	Peru	
2008/SOM3/SCSC/CONF/ 004	Introduction to Specialist Regional Bodies and their roles	Peru	
2008/SOM3/SCSC/CONF/ 005	Pacific Accreditation Cooperation (PAC) and Import Safety	PAC	
2008/SOM3/SCSC/CONF/ 006	ISO Project Committee 242 Enegry	PASC	
2008/SOM3/SCSC/CONF/ 007	Role of metrology in Energy Conservation	APLMF	
2008/SOM3/SCSC/CONF/ 008	Measurement Role in the Development of National Initiatives on Food Safety	APMP	
2008/SOM3/SCSC/CONF/ 009	Pathology Laboratory Testing in the Health Sector	APLAC Secretary	
2008/SOM3/SCSC/ CONF/010	Introduction to International Organizations and their roles in facilitating International Trade	Peru	
2008/SOM3/SCSC/CONF/ 011	IECEE CB Scheme – Taking Conformity Assessment Further	IECEE	
2008/SOM3/SCSC/ CONF/012	Responding to the Global and Related Challenges of Climate Change, Energy, Water and Nutrition	ISO	
2008/SOM3/SCSC/CONF/ 013	APEC SCSC Education Initiative: Raising Issues – Where should we go?	Korea	
2008/SOM3/SCSC/CONF/014	The Economic Impact of Standards	Australia	
2008/SOM3/SCSC/CONF/015	The Economic Value of Standardization in Canada	Canada	
2008/SOM3/SCSC/CONF/016	Economic and Social Effects of Standardization	Japan	
2008/SOM3/SCSC/CONF/017	The Value of Standards and Standards Education	USA	
2008/SOM3/SCSC/CONF/018	008/SOM3/SCSC/CONF/018 Introducing standardization as an Input for Innovation in high level education in Peru		
2008/SOM3/SCSC/CONF/020	Standards Education	ICES	
2008/SOM3/SCSC/CONF/021	European Academy for Standardization	EURAS	
2008/SOM3/SCSC/CONF/022	008/SOM3/SCSC/CONF/022 Introduction to the TFTF Seminar impact of Facilitation in APEC		
2008/SOM3/SCSC/CONF/023	EU RoHS Directive	GE Healthcare	
2008/SOM3/SCSC/CONF/024	Singapore's Initiatives to Support Industries for RoHS and REACH	Singapore	
2008/SOM3/SCSC/CONF/025	The EuP Directive and Implementing Measure	Korea	
2008/SOM3/SCSC/CONF/026	Preparations and Actions Being Taken in Japan for EU Environmental Regulations, REACH	Japan	
2008/SOM3/SCSC/CONF/027	US Industries Experiences with REACH	USA	
2008/SOM3/SCSC/CONF/028	Thailand Response to the EuP	Thailand	
2008/SOM3/SCSC/CONF/030	ABAC Standards Agenda	ABAC	

Document No.	Title	Submitted By
2008/SOM3/SCSC/CONF/032	Benefits of Accreditation and Conformity Assessment for Business	APLAC Secretary
2008/SOM3/SCSC/CONF/033	Report of ABAC Initiative Project on Critical Infrastructure and Support Systems Standardizations	Australia
2008/SOM3/SCSC/CONF/034	International Standardization for the Petroleum and Natural Gas Industry/ Possible Cooperation of APEC Members with OGP and ISO/TC-67	OGP/SC
2008/SOM3/SCSC/CONF/035	Chilean Standard of Energy Efficiency: bases for regulations and its impact in the national industry	Chile
2008/SOM3/SCSC/CONF/036	The use of standards and its impact in the agribusiness sector: The Peruvian experience	Peru





Session I:

Standards and conformity assessment – Specialist Regional Bodies and International Organizations







Overview Session I: Standards and conformity assessment – Specialist Regional Bodies and International Organizations

In the first session the focus was on standards and conformity assessment activities within the Specialist Regional Bodies (SRBs) and international standards development organizations. The session commenced with presentations from each of the five SRBs on key initiatives within their scopes, including topics such as energy management, the role of metrology in energy conservation, import safety, food safety and laboratory testing in the health sector. Following the SRB presentations, ISO and IEC, two international standards developing organizations, provided presentations on standards development for the global environmental challenges of energy, climate change, water and nutrition; and on the IECEE CB Scheme, respectively.

The first session stressed the importance of coordination between the APEC SCSC, SRBs and international organizations in order to more efficiently meet mutual goals and objectives. Through practical examples of high-priority initiatives within SRBs and international organizations, the session provided practical information to support increased APEC member economy involvement in the various forums. This session was moderated by Mr. Gary Kushnier, from PASC.

The presentations for this session were:

- Introduction to specialist Regional Bodies and their roles, Ms. Rosario Uría, Project Overseer, INDECOPI, Peru.
- Pacific Accreditation Cooperation (PAC) and Import Safety, Mr. David Shortall, Pacific Accreditation Cooperation (PAC).
- ISO Project Committee 242 Energy Management, Mr. Gary Kushnier, Pacific Area Standards Congress (PASC)
- The role of metrology in energy conservation, Ms. Ding Zhuyin, Asia Pacific Legal Metrology Forum (APLMF).
- Measurement role in the development of national initiatives on food safety, Dr. Laurie Besley, Asia Pacific Metrology Programme (APMP).
- Pathology laboratory testing in the health sector; Ms. Karen Hitchiner on behalf of Dr. Helen Liddy, Asia Pacific Laboratory Accreditation Cooperation (APLAC)
- Introduction to International organizations and their roles in facilitating international trade, Ms. Rosario Uría, Project Overseer, INDECOPI, Peru.
- IECEE CB Scheme Taking Conformity Assessment Further, Mr. Pierre De Ruvo, Executive Secretary General, IECEE.
- Responding to the global and related challenges of climate change, energy, water and nutrition, Mr. Alan Bryden, ISO Secretary General

Session I provided an opportunity to:

- Gain better knowledge on the activities of the five SRBs (APLAC, APMP, APLMF, PAC and PASC), not only on how they work amongst themselves, but also with international organizations in the fields of standardization, metrology, and accreditation that assist APEC Member Economies in meeting their international obligations under the WTO TBT Agreement and their commitment under the APEC Bogor Declaration.
- Have a better understanding of the work that is conducted in international standardization bodies, in particular the IECEE in its CB Scheme, and ISO with regard to global and related challenges of climate change, energy, and nutrition.

The recommendations in this session were:

- Member economies become more active, as needed, in the regional and international organizations, particularly in areas where work is just beginning, for example, the new ISO Project Committee 242 on Energy Management.
- Member economies develop their technical infrastructure on standards and conformance related to measurement and testing areas, as needed, to achieve a successful harmonization of standards.
- To reach active participation of developing members in the international standardization process, developed members could provide assistance while governments gain greater awareness and provide support. The SRB strategic plan was noted as being very helpful towards this action.

Speakers Session I

In order of final agenda



1. Ms Rosario Uría, Project Overseer, 7th Conference on Standards and Conformance / Coordinator, National Standards Body (INDECOPI), Peru

Mrs Uria is the Peruvian Standards Body Coordinator. She is a microbiologist and post graduate studies in Environmental Engineering, with fifteen years of experience and practical knowledge in the implementation of quality management systems in several sectors of industry, with specialization courses abroad. She is an expert in sanitary quality systems HACCP, and has experience on the application of ISO quality standards, and of models of excellence in total management (Malcolm Baldridge), with international registration as Lead Auditor ISO 9000.

2. Mr David Shortall, Pacific Accreditation Cooperation

Mr Shortall is a consultant in the area of standardization, trade and regulatory policy. He acts as an advisor to the Standards Council of Canada and is a member of Canada's delegation to the World Trade Organization-Technical Barriers to Trade Committee (WTO/TBT). Mr. Shortall served as convenor of ISO/CASCO Working Group 22. In his previous career he served as Canada's delegate to the TBT Committee and to APEC.





3. Mr Gary Kushnie, Executive Committee Chair, Pacific Area Standards Conference (PASC)

Mr Kushnie is Vice President of International Policy, of the American National Standards Institute (ANSI). He is responsible for overall liaison and policy coordination of ANSI's activities with international and regional organizations, for example, the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC), the three European Standards Organizations, the Pacific Area Standards Congress (PASC), and the Panamerican Standards Commission (COPANT), as well as their national member bodies.

4. Dr Laurie Besley, Member Executive Committee, Asia Pacific Metrology Programme

Dr Laurie Besley is the Chief Executive and Chief Metrologist in the National Measurement Institute, Australia. Dr. Besley's scientific and management career has spanned a diversity of fields including, for the last ten years, metrology in chemistry. He has a publication list of some 75 journal publications in a variety of different fields of metrology. He is active in a number of international forums and member of the editorial boards of the international journals "Metrologia", "IET Science Measurement & Technology", and "Accreditation and Quality Assurance".





5. Ms Karen Hitchiner, Manager for International Development, Standards Australia

Ms Hitchiner started with Standards Australia in the structures group with responsibility for facilitating the development of national and international standards in this area. Her involvement continued in the Asia Pacific by delivering seminars in a number of Asian Countries to promote the involvement and also delivering training courses. She was appointed to the joint position of manager for international development for Standards Australia and Standards New Zealand and has been actively involved in assisting them with their ISO, IEC, PASC and APEC activities over this period.



6. Mr Pierre De Ruvo, Executive Secretary General, International Electrotechnical Commission System for Conformity testing and Certification of Electrotechnical Equipment and Components (IECEE)

Mr De Ruvo graduated as an Electrical Engineer and pursued further post graduate studies in Automation and Business Administration. He joined the new French National Certification Body and Testing Laboratory, where in addition to the various responsibilities at national and international levels, Mr. De Ruvo was elected Chairman of the IECEE Committee of Testing Laboratory. After more than twenty years in the field of Conformity Assessment Programmes he was elected and appointed Executive Secretary of the IECEE and joined the International Electrotechnical Commission in Geneva.

7. Mr Alan Bryden, Secretary-General, International Standardization Organization (ISO)

Mr Bryden is the Chief Executive Officer of the Organization which has its headquarters in Geneva. Before joining ISO, he was General Director of the French National Standards Body (AFNOR) and was the General Director of the French National Testing Laboratory. During that period, he founded Eurolab (European Federation of Measurement, Testing and Analytical Laboratories) and presided it. He also chaired the Laboratories Committee of the International Laboratory Accreditation Cooperation (ILAC); and was Vice-President of the first Committee on Technical Barriers to Trade in GATT (now World Trade Organization).







Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/004

Introduction to Specialist Regional Bodies and their roles

Submitted by: Rosario Uría Coordinator, Peruvian Standards Body INDECOPI Project Overseer Peru

ruria@indecopi.gob.pe www.indecopi.gob.pe/normalizacion

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008

























(h) (h)	International Standardization System & Accreditation System
Ch Ch	
(h) (h)	Regional Level
	Country Level SCC JAB SAC JAS-ANZ (CA) (JP) (SG) (AU/NZ)
N CN C	Accredited Registration/Certification Bodies ULI BSI KPMB CGSB BVQI CSA TUV QMI
N.	Certified Organizations
	Concord Hewlett Kodak Globotek Inc. Packard Canada
3	Source: AJ Russell, Past Chair, APLAC





	Members of PAC	
Product Currently has 4 signatories	QMS Currently has 14 members	EMS Currently has 10 signator
JAZ-ANZ (Australia and New Zealand) SCC (Canada) EMA (Mexico) SAC (Singapore)	JAS-ANZ (Australia & New Zealand) SCC (Canada) CNAS (PR China) HKAS (Hong Kong, China) NABCB (India) KAN (Indonesia) JAB (Japan) KAB (Korea) Standards Malaysia (Malaysia) ema (Mexico) PAO (Philippines) SAC (Singapore) NAC (Thailand) TAF (Chinese Taipei)	JAS-ANZ (Australia and New Zealand) SCC (Canada) CNAS (PR China) KAN (Indonesia) JAB (Japan) KAB (Korea) Standards Malaysia (Malaysia EMA (Mexico) NAC (Thailand) TAF (Chinese Taipei)







SCSC-APEC and SRBs · The Subcommittee on Standards and Conformance -SCSC assists the Committee for Trade and Investment - CTI to achieve the standards and conformance related components of APEC's trade and investment liberalization and facilitation agenda The support of SRBs to SCSC is essential to achieve trade facilitation, specifically through technical infrastructure development. SRBs and the SCSC are working closely with the APEC Business Advisory Council (ABAC) to provide critical infrastructure in the Asia Pacific region in the area of standards and conformance . · SRBs provide assistance to APEC economies through capacity building activities, such as improving capacity to participate in international standardization activities and in metrology standardization; implementation of the WTO TBT Agreement; providing assistance to accreditation and certification bodies to draw up schemes according to international guidelines; among others. Sindecopi







APEC	Specialist Regional Body (SRB)				
Economies	APLMF	APMP	PASC	PAC	APLAC
Australia	NMIA	NMIA,ARPA NSA. ANSTO	SA	JAS-ANZ	NATA
Brunei Darussalam	Min of Dev.		CPRN		Min of Dev
Canada	Meas. Cmt.		SCC	SCC	SCC
Chile	Min of Ecn.				
PR of China	ACCSQ	NIM	SAC	CNAS	CNAS
Hong Kong, China	C&ED	HKSCL, GL	ITCHSKAR	HKAS	HKAS
Indonesia	DOM	KIM-LIPI	BSN	KAN	KAN
Japan	NMIJ	NMIJ/AIST, NICT. CERI	JISC	JAB, JASC	JAB, IAJAPAN JCLA, VLAC
Republic of Korea	KATS	KŔISS	KATS	KAB, KAS	KOLAS
Malaysia	Min of Trd, SIRIM	SIRIM- Berhad, MINT	DSM	DSM	SM
Mexico	DGN, CENAM		DGN	EMA	EMA
New Zealand	MAPSS	MSL, IR	SNZ		IANZ
Papua New Guinea	NISIT		NISIT		NISIT
Peru	INDECOPI		INDECOPI		
Philippines	ITDI	ITDI	BPS	PAO	PAB
Russian Federation	VNIIM	VNIIM	GOST R		
Singapore	SPRING	SPRING	SPRING	SAC	SAC
Chinese Taipei	BSMI	CMS, ITRI, INER		TAF	TAF
Thailand	CBWM	NIMT, DSS,TISTR	TISI	NAC	BLA-DSSITIS
United States	NIST, NCWM		ANSI	ANSI	A2LA, ACLASS, IA NVLAP, PJL, L-A-
Viet Nam	STAMEQ	VMI	STAMEQ	STAMEQ	BOA

Economies	Specialist Regional Body (SRB)					
	APLMF	APMP	PASC	PAC	APLA	
OTHER ECOOMIES INVOLV	ED IN VARIOUS SRBs					
Bangladesh		BSTI				
Cambodia	DOM					
Colombia	SIC		ICONTEC			
Egypt		NIS				
Fiji		DTCI	FTSQCO			
India		NPLI, BARC		NABCB	NABL	
Iran				IAS		
Jordan		JNMI				
DPR of Korea	SAQM	CIQM				
Laos	DISM					
Mongolia	MASM	MASM	MASM		MASM	
Myanmar						
Nepal		NBSM				
Pakistan		NPSL		PNAC	PNAC	
South Africa		NML/CSIR	SABS			
Sri Lanka		MUSSD			SLABC	
Syria		NSCL				
- ,						
Legend	Member					
	Associate Member					
	Not a Member				ndeco	

Knowledge Sharing -Production of various guidance documents on technical issues related to accreditation of laboratories, inspections bodies and reference material produce and on the conduct of proficiency testing programs. -APLAC Web site -Training Courses on topics identified by APLAC -Train the trainer course for technical assessors for reference material producer	(Laboratory, in	LAC Activities 2008-2012 spection body and reference material
trading system -Information Seminar for Regulations in the economy hosting APLAC meeting Reduce Barriers to trade -Enhancement of MRA in existing discip lines including expansion of MRA for inspection. -Development of the MRA to cover other disciplines beneficial to reduction of barriers to trade and deepen the acceptance of the MRA in voluntary and mandatory sector. -Working to extend the MRA to cover accr editation proficiency testing providers Knowledge Sharing -Production of various guidance documents on technical issues related to accreditation of laboratories, inspections bodies and reference material produce and on the conduct of proficiency testing programs. -APLAC Web site -Training Courses on topics identified by APLAC	Cooperative Solutions	areas of importance to trade in the APEC region (Telecoms, food safety)
inspection. -Development of the MRA to cover other disciplines beneficial to reduction of barriers to trade and deepen the acceptance of the MRA in voluntary and mandatory sector. -Working to extend the MRA to cover accr editation proficiency testing providers Knowledge Sharing -Production of various guidance documents on technical issues related to accreditation of laboratories, inspections bodies and reference material produce and on the conduct of proficiency testing programs. -APLAC Web site -Training Courses on topics identified by APLAC -Train the trainer course for technical assessors for reference material producer		
accreditation of laboratories, inspections bodies and reference material produce and on the conduct of proficiency testing programs. -APLAC Web site -Training Courses on topics identified by APLAC -Train the trainer course for technical assessors for reference material producer	Reduce Barriers to trade	inspection. -Development of the MRA to cover other disciplines beneficial to reduction of barriers to trade and deepen the acceptance of the MRA in voluntary and
-Continue to work with APMP and PA_C on the implementation of MOUs with both bodies .		accreditation of laboratories, inspections bodies and reference material producers and on the conduct of proficiency testing programs. -APLAC Web site -Training Courses on topics identified by APLAC -Train the trainer course for technical assessors for reference material producers -Workshops on accreditation of inspection bodies -Continue to work with APMP and PA C on the implementation of MOUs with

	APMP Activities 2008-2012 Measurement Standards
Cooperative Solutions	-Annual APMP General Assembly and related meetings -Develop further cooperative activities with APMLMF and APLAC -Participate in relevant APEC SCSC activities -Initiate and develop cooperative SRB activities
Support a Multilateral trading system	-Provide input to and participate in relevant APEC and other SRB activities to improve dialogue with regional regulatory bodies.
Reduce Barriers to trade	-Undertake capacity building activities th rough seminars, workshops and train attachments -Initiate and develop activities to ensure effective participation by APMP memb economies in the CIPM MRA -Ongoing participation in JCRB enabling representation of the Asia Pacific in th development and implementation of the CIPM MRA -Task Force to quantify the impact of metrology on member economies
Knowledge Sharing	 -Undertake capacity building activities through seminars, workshops and training attachments - Initiate regional APMP netw orks for knowledge sharing and research and trainin development -Establish database of calibration capab ilities in primary measurement standards Expansion of guide for metrology in chemistry for developing economies

<u>ar 47 48</u>		APLMF Activities 2008-2012 Legal Metrology
<u>~</u>	Cooperative Solutions	-Hold APLMF and WG meetings - Attend APEC SRB workshop meeting
Ch Ci	Support a Multilateral trading system	-Hold WG on MAA -Conduct a training course on Flow Meters that will be an MAA focused technical area -Try to cover new areas as traffic safety ,energy conserving.
	Reduce Barriers to trade	-Conduct training courses, seminars and workshop -Continue surveying needs from member economies (2009) -Try to focus on legal metrology in economic development (2010-2012)
	Knowledge Sharing	-Make progress in APMLF web site -Publish handbooks and reports of all the conducted training courses, seminars and workshops
D B B	Source: Proposed Action	Plan SRB 2008-2012 - 2008/SOM 1/SCSC/028

	PASC Activities 2008-2012 Standardization	
Cooperative Solutions	-Annual PASC and standing committee meetings -Meet annually and coordinate consistently with the others SRB's -Participate in relevant APEC SCSC activities -Meet and communicate with APEC Bussines Advisory Council (ABAC) to address Asia Pacific Bussines priorities	
Support a Multilateral trading system	 -Facilitate APEC informal network meetings among experts in various fields: Safety of household and similar electrical appliances, Environmental standardization for electrical and electronic products and systems, Food products, Societal Security and others. Identify further areas where there aregaps in the international standards. 	
Reduce Barriers to trade	 -Encourage the involvement within the Asia Pacific region in the development, adoption, an use of international standards over regional standards. -Encourage regulators in the Asia Pacific region to use harmonized voluntary standards as a basis for technical regulator over developing country specific technical regulations -Encourage businesses in the Asia Pacific region to develop and use harmonized voluntary standards which can be used by regulators in the region as a basis for technical regulations -Use the proposed mechanism for identifying a sector or economy requiring capacity building for standardization and deliver seminars and workshops 	
Knowledge Sharing	-Continue to expand the transparency of standards used in each PASC/APEC economy to facilitate trade and market access -Share information, presentations and communication materials on PASC website of best practices in international standardization, regulator and for bussinesuse of voluntary standard to achieve effective regulator compliance with minimmunnegative impact on trade	
Accreditation of certification bodies		
---------------------------------------	--	--
Cooperative Solutions	-Annual PAC meetings -Attend APEC SCSC and SRB workshops and meetings. -Attend APEC SCSC and joint SCSC -SRB -Work with APLAC to implement the PAC/APLAC MoU.	
Support a Multilateral trading system	-Encourage more PAC member to join the existing PAC MLAS (QMS,EMS and produc -Identify further areas where there is a reed for MLAs which would assist trade for Asia- Pacific economies.	
Reduce Barriers to trade	-Continue to review need for other MLAs and the status of existing MLAs -Continue to implement MoUs with APLAC and IAAC -Investigate MoU with SADCA	
Knowledge Sharing	-Providing training courses and implement training recommendation -PAC website and CD continously updated -PAC Newsletter published -Provide reports to other SRBs and APEC SCSC -Hold Open Forum/ Industry Seminar in conjuction with plenary -Work with IAAC to implement the PAC /IAAC MoU	
Source: Proposed Acti	on Plan SRB 2008-2012 - 2008/SOM 1/SCSC/028	





2008/SOM3/SCSC/CONF/005

Pacific Accreditation Cooperation (PAC) and Import Safety

Submitted by: PAC David Shortall

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





International Level	WITCH NAT	Ē	ilac
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Regional Level	European so-operations for Accreditation	662 -	PAC
Country Level EMA	KAN	SAC SO	CC Standar Malays
Accredited Certification E	Bodies/Laboratori	ies	
ININ	SICS	BSI C	SA CIS



About PAC

- Formed in 1995.
- An association of Accreditation Bodies (ABs) and other interested parties.
- 1 of 4 Special Recognition Regional Groups of IAF.
- 1 of 5 Specialist Regional Bodies (SRBs) of APEC.

About PAC

MISSION:

To represent the interests of Asia-Pacific economies nationally, regionally and internationally in the area of certification body accreditation and related activities, in support of APEC, IAF and WTO/TBT aims and objectives.

About PAC

OBJECTIVES:

- ✓ facilitate trade and commerce among economies in the Asia-Pacific Region.
- cooperate in the establishment of a global system that grants international recognition of certification of management systems, products, services, personnel and other programs of conformity assessment.

MLAs = Assuring Import Safety

Multilateral Recognition Arrangements (MLAS):

- formal voluntary arrangements.
- based on the equivalence of accreditation programs, verified through peer assessment.
- provide worldwide recognition of ABs that are signatories to the MLAs, and accordingly assurance that CBs operate to the same standards.











MLAs = Assuring Import Safety

- 2- MLAs contribute to ensuring the safety of imported products by providing a chain of confidence (traceability):
- MLAs are based on the results of rigorous, transparent and ongoing peer evaluations to international standards, guides, and IAF guidance documents.
- Qualified peer evaluators are selected based on their knowledge, technical background, and assessment experience.

MLAs = Assuring Import Safety

- 3- MLAs contribute to ensuring the safety of imported products by obligating Signatories to promote the concept "Tested / Certified Once = Accepted Everywhere":
- Signatories to the MLA are required to promote with major stakeholders including regulators the mutual confidence / recognition of certificates of conformity issued by CBs accredited by other signatories to the Arrangement.





_		Product MLA		
_				
	MLA	International standard for accreditation & assessment (ABs)	International standards / guides for CBs	
С	Product ertification	ISO/IEC 17011	ISO/IEC Guide 65	













2008/SOM3/SCSC/CONF/006

ISO Project Committee 242 Energy Management

Submitted by: PASC Gary Kushnier Chair – Executive Committee

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The ANSI/ABNT proposal purpose and justification The energy management standard will address strategic management of energy to include: energy supply, procurement practices for energy using equipment and systems, energy use, and any use-related disposal issues. The standard will also address measurement of current energy usage, and implementation of a measurement system to document, report and validate continuous improvement in the area of energy management. The energy management Specification will provide a practical approach to improving energy efficiencies, reducing costs and improvements in the environmental footprint of the implementing organizations by combining both the technical aspects of energy management and the strategic management aspects 7th Conference on Standards and Conformance / 10 August 2008 - Cusco, Peru 2008 © PASC Slide 6













ISO/PC 242 (Energy Management) Member Countries

Participating Countries

- Argentina
- Australia
- Brazil
- Canada
- China
- Denmark
- Finland
- France
- Germany
- Japan
- Korea
- Netherlands
- Poland
- Portugal

Participating Countries

- Singapore
- South Africa
- South F
- Spain
- Sweden
- United Kingdom
- United States of America

Observer Countries

- Czech Republic
- Italy
- Morocco
- Switzerland
- Thailand

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2008/SOM3/SCSC/CONF/007

Role of Metrology in Energy Conservation

Submitted by: APLMF -Secretariat guos@aplmf.org

Presented by: Ding Zhuyin AQSIQ, China dingzy@aqsiq.gov.cn

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008

















Approaches for Industrial Enterprises to Strengthen Energy Measurement for Energy Conservation

- Upgrade and adapt measuring instruments and facilities for energy measurement, so as to measurement accuracy and deliver reliable measurement data for industrial enterprises to optimize energy utilization.
- Raise the awareness and capability of measurement staff to save energy by introducing evaluation system and conducting relevant training.

















2008/SOM3/SCSC/CONF/008

Measurement Role in the Development of National Initiatives on Food Safety

Submitted by: APMP Laurie Besley Chief Executive National Measurement Institute, Australia

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008
























Unfortunately, Many Laboratories Can Give Bad Results !

- In this study 131 laboratories submitted results
- Only 34 (26%) agreed with the true value within their stated uncertainty
- Some 56 (43%) were more than 25% wrong
- Some 39 (30%) were more than 50% wrong

The number of laboratories that were more than 50% wrong exceeded the number that gave the correct result

National Measurement Institute, Australia











Greater Level of Scrutiny
An example:
Japan Vows Better Screening of Chinese Food (DJ) Source: Dow Jones Newswires
Tokyo, Feb. 4, 2008 - Japan Monday pledged to step up screening of food imports from China amid a nationwide scare over Chinese-made dumplings that left hundreds complaining of illness.
Ten people were diagnosed with pesticide poisoning after eating the frozen meat dumplings, prompting major foodmakers to recall food products manufactured at the same factory in China.
As Chinese experts held a second day of closed-door talks with Japanese officials, Prime Minister Yasuo Fukuda vowed to strengthen scrutiny of imports.
"This is actually a matter of national security if it is linked to the Japanese people's lives," Fukuda told a parliamentary committee.
"Considering the current situation in Japan in which exports and imports are increasing - which is essential for Japan in maintaining growth momentum - it's extremely important to have a system of checking the flow of people and goods at the borders," he said.
NATIONAL MEASUREMENT INSTITUTE









Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/009

Pathology Laboratory Testing in the Health Sector

Submitted by: APLAC Secretary Helen Liddy

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Presented by: Karen Hitchiner, Australia

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



Overview

- Importance of pathology testing international perspective.
- Quality in the pathology laboratory.
- Implementation.
- Accreditation and APLAC MRA.
- Veterinary testing the other half of the equation.

Quality in Health Care

- Critical to public health.
- Need for accurate and timely diagnostic laboratory testing
 - Increased transnational mobility of persons
 - Timely response to public health risks
- WHO International Health Regulations 2005.

WHO International Health Regulations 2005

All economies must have capacity to assess, detect and report to the WHO any potential health risk of international concern.

Supported by accurate and reliable laboratory test results not just clinical observations.

To ensure timely and effective response.

Role of Pathology Laboratory

- · Accurate and timely test results ensure
 - Correct diagnosis and treatment
 - Timely diagnosis
 - Optimisation of response
 - Optimisation of resources



- Application of agreed international Standard (ISO 15189).
- Participation in appropriate proficiency testing programs (QAPs).
- Accreditation as independent demonstration of a level of technical competence.







• Effective procedures for evaluating and selecting referral laboratories, and consultants who provide second opinions, e.g. for histopathology.

ISO 15189 – Technical Requirements

- Personnel
- Accommodation & environmental conditions
- Laboratory equipment
- Pre- & post- testing procedures
- Testing procedures
- Assuring the quality of testing results
- · Reporting results

Key Issues in Implementing ISO 15189 on a National Basis

- "Buy in" by the professional bodies for pathologists and medical scientists.
- Peer review process for assessment of laboratories.
- Access to comprehensive proficiency testing programs (QAPs).
- Emphasis on on-going education.

Accreditation

- Assessment of laboratory performance against international criteria (ISO/IEC 17025; ISO 15189).
- Means of determining competence of laboratories to perform specific measurements, calibrations or tests competently.
- Formal recognition of that competence.







Accreditation of Pathology Laboratories in APEC Region

- First accreditation program developed in mid-1980s in Australia.
- Many accreditation bodies in the region now have or are developing accreditation programs for pathology laboratories.

Accreditation of Pathology Laboratories in APEC Region

- APLAC Mutual Recognition Arrangement (MRA) for accreditation of pathology laboratories to ISO 15189: currently 9 signatories.
- APLAC MRA signatories evaluated for compliance with ISO/IEC 17011.

APLAC Support for Accreditation of Pathology Laboratories

- Training courses and workshops for accreditation bodies developing accreditation programs to ISO 15189.
- APLAC Technical Committee has established standing sub-committee on Medical Laboratories.

Veterinary Pathology Testing -The Other Part of the Equation

OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, chapter I.1.2

Valid laboratory results are essential for diagnosis, surveillance and trade. Such results may be achieved by the use of good management technique, quality control, and quality assurance, all working together within a quality system. A quality management programme should enable the laboratory to demonstrate that it...is technically competent, and is able to generate technically valid results.

Veterinary Testing – OIE Manual.....

- Refers to ISO/IEC 17025 as an essential standard for accreditation.
- Refers to ILAC and some individual accreditation bodies, including some in the APEC region as sources of information.
- Emphasises competence as a significant element.

Veterinary Testing in the APEC Region

- Some accreditation bodies in the region have developed accreditation programs for veterinary testing laboratories.
- Others are developing them.
- · Based on ISO/IEC 17025.
- Covered by APLAC MRA for testing.

Summary

- Pathology testing critical for human health.
- Veterinary pathology testing critical for health and trade.
- Accreditation as independent means of demonstration of competence.
 - Supported by WHO
 - Supported by OIE





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/010

Introduction to International Organizations and their roles in facilitating International Trade

Submitted by: Rosario Uría Coordinator, Peruvian Standards Body INDECOPI Project Overseer Peru

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008

































Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/011

IECEE CB Scheme - Taking Conformity Assessment Further

Submitted by: IECEE Pierre de Ruvo Executive Secretary IECEE

pro@iec.ch

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





























IECEE: Taking Conformity Assessment Further	Connecting people and economies through trade, investment and technology.	Asia-Pacific Economic Cooperation
CTL	- Committee of Testing Laboratorie	es
The main tasks of the C	CTL are to:	
	n the tests related to the IECEE have to be only reproducibility of test results.	carried out so as
8	and use of the test equipment referred to in ons to the relevant technical committee or s nts of those standards.	
 provide testing laborat be demonstrated and d 	ories with a forum in which practical testing liscussed	problems can
	ence on Standards and Conformance – Standards and Conformity Assess cialist Regional Bodies and International Organisations, Cuzco Peru	ment –













•		1000, 1110	stment and technology.	Asia-Pacific Economic Coopera
	LEVE	LS OF MEMI	BERSHIP	
	MEMBER BODY	NCB(s) NATIONAL CERTIFICATION BODY	CBTL(s) TESTING LABORATORY	MANUFACTURER'S TESTING LABORATORIES
Level 3 ***	Full Rights	Issuing and Recognizing	Associated with the NCB	Under the Responsibility of the NCB
Level 2 **	Full Rights	Recognizing only		
Level 1 *	Full Rights			


		trade, investme	ent and technology.	Asia-Paci Economic Coo
	Countries	NCBs	CBTLs	ACTLs
2001	41	53	129	0
2002	42	56	141	0
2003	43	58	150	0
2004	43	58	170	0
2005	44	58	195	0
2006	46	59	216	0
2007	50	62	234	10
2008 (so far)	50	66	247	18















































2008-08-10 Specialist Regional Bodies and International Organisations, Cuzco Peru











































IECEE. Taking Conformity Assessment Further	Connecting people and economies through trade, investment and technology.			
	IECEE EMC CB Test Certificate			
	IEC III EMC			
	IEC SYSTEM FOR MUTUAL CB FAIL TEST RECORNITION OF TEST CERTIFICATE CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)			
	have			
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	erence on Standards and Conformance – Standards and Conformity Assessment – ecialist Regional Bodies and International Organisations, Cuzco Peru			


































































































Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/012

Responding to the Global and Related Challenges of Climate Change, Energy, Water and Nutrition

Submitted by: ISO Alan Bryden ISO Secretary - General

bryden@iso.org www.iso.org

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



Outline of presentation

- · The ISO system
- Climate change
- Energy efficiency
- Water
- Nutrition
- ISO's related international netwroking









Climate change: nr 1 on the world agenda World Economic Forum – Davos 2008 Extreme weather across globe (South Asia monsoons, heavy rains in northern Europe, unusual snowfall in South Africa, South America) 2007 Nobel Peace Prize to *AI Gore* and the *UN Intergovernmental Panel on Climate Change (IPCC)*"Bali Roadmap" - two-year process to finalize an agreement and to address concerns regarding "adaptation", deforestation and clean technologies Oil prices from low of USD 50 at start of 2007 – peak at 150 USD and now around USD 120/barrel G8 meetings: from Gleneagles (UK) to Toyako (Japan)





Climate change: monitoring the phenomenon

- ISO/TC 211 on geographic information and geomatics
- Work currently initiated with FAO/WMO with TC 211 to help track "essential climate variables"
- ISO/TC 146/SC 5 on air quality, meteorology
 - Collaboration with the UN Food and Agriculture Organization (FAO) on satellite mapping and data acquisition and processing – *formal cooperation agreement underway*
 - Collaboration with World Meteorological Organization (WMO) on meteorological, climatological data and related standards – *formal cooperation agreement underway*









ISO 14064/65 Objectives

- Develop flexible, regime-neutral tools for use in voluntary or regulatory GHG schemes
- Promote and harmonize best practices
- Support the comparability and environmental integrity of GHG assertions
- Assist organizations to manage GHG-related opportunities and risks
- Support the development of GHG reduction programmes and emission credits trading markets.

ISO and linkages with other GHG accounting approaches

- M.o.U. with WRI/WBSCD addressing technical cooperation, promotion and training: complementary between ISO 14064 - providing "What"- and the GHG Protocol providing "How"
- M.o.U with the "Voluntary Carbon Standard" (VCS) using ISO 14064 as framework and referencing ISO 14065
- UNFCCC in active liaison with ISO TC/207

Promoting good environmental design and management practices

- ISO 14040:2000 Principles and framework for *life cycle* analysis
- ISO 14001:2004 - *Environmental management system requirements* with guidance for use
- ISO 14004:2004 -Environmental management system guidelines









Energy efficiency – ISO's response

- 18 ISO Technical Committees involved in aspects of energy efficiency
- Sustainability in construction and energy efficiency of buildings
- Intelligent transport systems
- Energy weighting, aggregation and calculation methods (energyware)
- NEW ISO SAG on Energy efficiency and renewable sources
- NEW activity Energy Management, systems approach to energy performance
- NEW SC on biofuels to first establish specs for biodiesel and bioethanol quality
- Cooperation with IEA, WEC, IEC and UNIDO





The water challenge – ISO's response

- ISO/TC 30 : increasingly important work on "water metering" in closed conduits
- ISO/TC 113 on Hydrometry: open channels & groundwater: assessment of water resources possible only by its proper measurement
- ISO/TC 147 on water quality 238 published standards: sampling and measurement of water characteristics
- ISO/TC 224 Water treatment and drinking water – quality of services – providing confidence in areas of public/private transition



Global nutrition challenge Impacting those least able to respond

- Current acute food crisis low stocks, high prices, aggravated by climate change effects such as extreme weather and water scarcity.
- Biofuel debate: common standards and sustainability considerations to support sound public policy
- Food safety, use of GMOs, value-adding aspects related to food production, processing and distribution (fair-trade, low carbon footprint, organic food...)

Food, agriculture and nutrition – ISO's response

ISO/TC 34, Food products

- ➢ 720 standards
- Food safety (ISO 22000 series)
- Detection of GMOs
- > Food traceability systems
- > Irradiation of food

> Many test methods for seeds, fruits and vegetables, cereals, milk, meat and poultry, spices, coffee, tea ..

- ISO/TC 93 on starch established test methods
- ISO/TC 234 on fisheries and aquaculture ensuring sound 'farmed fish' production
- Relations with WHO/FAO (Codex) + WTO/SPS+ Retailers (GFSI)







ISO's related global networking

- WTO: TBT, SPS, Committee on Environment and Trade
- UN and UN agencies: CODEX, FAO, UN-DESA, UNEP, UN-FCCC and IPCC, UNIDO, WHO, WMO, WTO-Tourism
- G8
- OECD: Transports Forum, IEA
- International Biofuels Forum
- Links with seven regional standardization bodies (ACCSQ, AIDMO, ARSO, CEN, COPANT, EASC, PASC)
- Economic actors: Accreditation: IAF and ILAC, Consumers International, World Economic Forum, World Energy Council, World Petroleum Congress, WRI, IISD, etc...
- World Standards Cooperation: IEC-ISO-ITU





Session II:

Standards and Conformance Education - Challenges for contents in textbook development and network cooperation in APEC region





Overview Session II: Standards and Conformance Education- Challenges for contents in textbook development and network cooperation in APEC region

The focus of the second session was on the importance of Education about standards and conformance and the achievements in APEC Economies. This session discussed the importance of education on standards and conformance, specially on the economic and social value of standardization and on networking and cooperation in the APEC region. This session was moderated by Mr Teo Nam Kuan, SPRING from Singapore and Mr Donggeun Choi, from Korea.

The presentations for this session were:

- APEC SCSC Education Initiative: Raising issues Where should we go?, Mr Donggeun Choi, Korea.
- The economic Impact of Standards, Mr John Tucker, Standards Australia.
- The Economic Value of Standardization in Canada, Mr Stephen Head, Standards Council of Canada.
- Economic and Social Effects of Standardization, Mr Shigekazu Fukunaga, Technical Regulations, Standards and Conformity Assessment Policy Unit Ministry of Economy, Trade and Industry of Japan.
- The Value of Standards and Standards Education, Ms Erin Grossi, Underwriter Laboratories, USA.
- Introducing standardization as an Input for Innovation in high level education in Peru, Mr Augusto Mellado, National Council of Science, Technology and Technological Innovation, Peru.
- Standards Education, Mr John Hill, Vice Chair of ICES.
- European Academy for Standardization, Ms Francoise Bousquet, Vice President of EURAS.

Session II provided an opportunity to:

- Be acquainted with successful business experiences in APEC economies in the use of standards and its positive impact on the economy, which may be used as a reference in standards education.
- Gain awareness regarding contents for textbook, cases, national plan and networking of standards education organization.

The recommendations in this session were:

- APEC SCSC encourages member economies to more actively participate in SCSC education initiative to increase awareness and knowledge to address the significance of standards and conformance in the region.
- APEC member economies acknowledge the importance of contents development and networking:
 - o Members are recommended to develop theoretical and case studies based contents to describe the socio-economic impacts of standardization.
 - o Members are recommended to strengthen its networking of relevant academia, professionals, and educators within and outside of APEC.

Speakers Session II

In order of final agenda



1. Mr Teo Nam Kuan, Vice Chair, Sub Committee on Standards and Conformance / Group Director, Quality and Standards, SPRING, Singapore

Mr Teo Nam Kuan, has been involved in standardization work since 1985 when he was in charge of standardization and certification programmes. He represents SPRING Singapore in international meetings at ISO, IEC and regional standardization forums such as the Asian Consultative Committee on Standards and Quality (ACCSQ), Pacific Area Standards Congress (PASC), and the APEC Sub-Committee on Standards and Conformance (SCSC). He has also participated actively in MRA negotiations and currently he is Vice Chair of Sub Committee on Standards and Conformance.

2. Mr Donggeun Choi, Senior Standards Analyst, Korean Standards Association

Mr Choi has worked in the Korean delegation to ISO TC204, APEC Transportation Working Group and APEC Sub-Committee on Standards and Conformance (SCSC). He serves as liaison officer between ISO TC204 and APEC Transportation Working Group (TPTWG). He is the project editor of ISO TR 28682, which is the very first joint project between APEC and ISO. In APEC SCSC, among others, he has worked for APEC SCSC Education Initiative. He is the project proponent and project editor of that initiative. He has a Master's Degree in Transportation Management from Seoul National University, and now is a PhD candidate in Management of Technology





3. Mr John Tucker, Chief Executive Officer (CEO), Standards Australia

Mr Tucker is an experienced company director, having formerly held statutory appointments in the fields of health, Occupational Health and Safety (OHS) and workers' compensation, including memberships of Australia's National OHS Commission and the New South Wales (NSW) Health Minister's Quality Reference Group; and directorships of the NSW Work Cover Authority, Coal Mines Insurance Pty. Ltd. and the NSW Mines Rescue Service. In Standards Australia he has had a diverse career path traversing public and private sectors, political advising and has held CEO positions in the fields of injury management, OHS risk management, and industry association management.

4. Mr Stephen Head, Senior Policy Analyst, Standards Council of Canada

Mr Head is a Senior Policy Analyst in the Intergovernmental Affairs and Trade Branch of the Standards Council of Canada (SCC). He has a Bachelor of Arts and a Master of Arts degree in political science. His current responsibilities for the SCC include monitoring the files of the World Trade Organization-Technical Barriers to Trade Committee (WTO/TBT) and the APEC Sub-Committee on Standards and Conformance (APEC/SCSC). He provides policy advice and analysis on the international, national and regional implications of a broad range of regulatory, trade and standardization policies, initiatives, programs and practices. His research interests are international trade policy and regulatory cooperation.





5. Mr Shigekazu Fukunaga, Deputy Director, Technical Regulations, Standards and Conformity Assessment Policy Unit, Ministry of Economy, Trade and Industry (METI) of Japan

In METI Mr Fukunaga is in charge of international cooperation matters in the field of international standardization and conformity assessment activities. He is also responsible for and participates in international meetings and conferences in the same fields, such as the World Trade Organization - Technical Barriers to Trade Committee (WTO/TBT), ISO, and APEC Sub-Committee on Standards and Conformance (APEC/SCSC) as a Japanese delegate. He has made his career in METI in the field of energy policy and car recycling policy.

6. Ms Erin Grossi, Manager of International Affairs, Underwriters Laboratories Inc, United States

Ms Grossi is the Manager of International Affairs in the Government Affairs office for Underwriters Laboratories Inc. (UL). In this position, she is responsible for planning and executing UL's trade policy objectives, in close coordination with the US Trade Representative's Office, the US Commerce Department, and other domestic and international agencies. She also supports the business and policy objectives of UL's 26 international affiliates. She holds a Bachelor's Degree in International Economics and Spanish from Marquette University and a Master's Degree in International Relations from Georgetown University. She is currently working on a Doctorate in International Relations with a trade focus, also at Georgetown.





7. Mr Augusto Mellado, President, National Council of Science, Technology and Technological Innovation, Peru

Mr Mellado is graduated from National University of Engineering. He also studied courses in North Carolina University and has a specialization in Nuclear Engineering in Argonne Laboratories. Later he obtained a Master Degree in Research of operations in Birmingham University, United Kingdom. He obtained the Doctor's Degree in Education in Federico Villareal National University, with the Project: The Force of the Human Capital Theory. He was the Director of Graduated School in National University of Engineering, where he promoted the first program of Systems Engineering in Peru. Also, he was elected Vice-rector in San Martin de Porres University. Currently he is President of the National Council of Science, Technology and Technological Innovation of Peru.

8. Mr John Hill, Vice Chair of International Cooperation for Education about Standardization (ICES)

As Sun Microsystems' Chief Standardization Strategy Officer, Mr. Hill was responsible for managing Sun's activities in formal standardization organizations including ISO, IEC, ITU/T and JTC 1. He is the former chairman of JTC 1's SC 22, on computer programming languages, and is the Director Emeritus of the VITA Board of Directors. Also, he has thirty two years in the ICT industry having worked in many fields, including standardization, application software development, and industrial engineering. For the past twenty years he has been working exclusively on standardization for Sun, AMP, and Unisys. He has received numerous industry awards recognizing his contributions in standardization.





9. Ms Françoise Bousquet, Vice President of European Academy for Standardization

Ms Bousquet has experience in standardization: in industry, in the French National Standards Body (AFNOR), in academic teaching about standardization, and now in her consultancy firm ZFIB Conseil. She provides consulting services mostly in standardization and normative watch. She has been teaching standardization for more than ten years in the Ecole Centrale de Paris and is now responsible for the Chair on Standardization as a tool for innovation and on competitive intelligence in EISTI (Ecole Internationale des Sciences du Traitement de l' Information - Mastère Intelligence Economique).





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/013

APEC SCSC Education Initiative: Raising issues -Where should we go?

Purpose: Information Submitted by: Korea Donggeun Choi Senior Standards Analyst, Korean Standards Association Editor, APEC SCSC Education Project

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008











































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Expansion>	One University	#20.#21 France-ZFIB #24 Japan-JSA #30 Univ Moratuwa #34 USA-Catholic	#26 Korea–FEU(multi) #25 Japan-T.U(multi) #28/#29 Neth-RSM (thesis, optional)	#18 Egpyt – PQI #19 France – U.C.
		One Subject	Multi Subjects - a few subjects/thesis- <level intensiveness="" of=""></level>	Multi Subjects - degree/program -






































Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/014

The Economic Impact of Standards

Purpose: Information Submitted by: Australia John Tucker Chief Executive Officer Standards Australia

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Perú 10-11 August 2008



Setting the scene (2005)

- UK studies: standards' impact on labour productivity
- · German study: standards' impact on GNP
- Many unsupported assertions!
- Productivity Commission study on Standards and accreditation: we needed evidence of the links between standards, innovation and productivity



Standards, innovation and productivity

- Our consultants looked at the growth of Standards and the trend of multifactor productivity and concluded (using two different methods):
- If standards are specified as contributing to the stock of knowledge jointly with R&D expenditure, then a 1 per cent increase in this joint stock of knowledge leads to a 0.12 per cent increase in economywide productivity....
- Using a combined measure of the stock of knowledge (standards combined with R&D) indicates that the inclusion of standards increases the apparent contribution [to multifactor productivity] of R&D based knowledge by around 5 percentage points.



- - help providers to establish the networks
 - increase the effectiveness of users in accessing the networks
 - together bring economywide benefits of around \$A1.9 billion per year (=\$US1.83 billion)
- Australian Standard on risk management has helped increase the awareness of risk among Australian companies, by comparison with companies in other economies
- Australian Standards on mineral sampling, by providing more precision regarding the mineral content of ores, have the effect of increasing the confidence of both buyers and sellers
 - benefits to Australia \$A58 million per vear

The reaction

Productivity Commission said:

- The CIE and Standards Australia make a convincing case that standards can play a useful role in the diffusion of knowledge and productivity growth.
- The *'principal components'* of the innovation system include *'standards making'*.

Case studies

- New industries
- Building and construction
- Electronics
- Management
- 'Whatever happened to?'
 - Need to follow through on how Standards make a difference to users

Next steps

- More evidence, particularly case studies and sectoral studies
- Respond to challenges: Submission to National Innovation Review
- · Statistical recognition
- · Monitor and replicate overseas studies
- Keep making the case: 'nobody owes us a living'

Following up

- Consultancy report and related material: http://www.standards.org.au/downloads/11-04-2007-Standards_and_Innovation.pdf
- Submission to National Innovation Review: <u>http://www.innovation.gov.au/innovationreview/Documen</u> ts/427-Standards_Australia.pdf
- Case studies: http://www.standards.org.au/casestudies.asp
- Contact:
 - Dr David Stephens
 Government & Stakeholder Relations Consultant to Standards Australia
 clamshred@ozemail.com.au





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/015

The Economic Value of Standardization in Canada

Submitted by: Canada Stephen Head, Senior Policy Analyst Standards Council of Canada shead@scc.ca

Original presentation by Paul Darby, The Conference Board of Canada and Begonia Lojk, Standards Council of Canada

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



Background

SCC has undertaken a number of initiatives over the last few years exploring the value of standards:

- Task Force on Innovative Funding Solutions (circa 2002-04)
- Future Vision Task Force (followed on from TFUNS)
- Development of a Value Proposition
- Quantification of impact of standards (CBOC Study, 2006-2007): literature review, case studies and economic analysis



In 2006, the Standards Council of Canada asked The Conference Board of Canada to examine the economic benefits of standardization for Canada:

- · What has the economics literature said?
- What are Canadians saying?
- What does the Canadian data say?



Interviews and Case Studies

Key stakeholders provided compelling examples of the benefits of standardization

• Economic Impact of Standards in Canada

Standards have had a significant, positive impact on Canadian economic growth

Qualitative Analysis

- Purpose was to support empirical evidence with qualitative information
- 15 interviews with industry leaders
- 2 case studies
- Provided a Canadian perspective

Interviews Showed Significant Benefits From Standards

- · Facilitating trade
- Encouraging innovation, R&D and continuous improvement
- · Establishing credibility and quality
- Setting a level playing field
- · Improving productivity and reducing costs
- · Ensuring reduced health and safety risks



- Enhances professional interaction.
- Enables firms to influence standards.
- Ensures that unwanted constraints do not appear in standards.
- Creates demand for superior products.

Case Studies

- SaskPower
 ISO 14001 Implementation
- Infasco
 ISO 9001 Implementation

SaskPower-ISO 14001 Summary of Benefits (1)

- Increased confidence that environmental risks are being managed.
- Improved understanding and compliance with legal requirements.
- Enhanced confidence of senior executives in the Environmental Management System.
- More effective deployment of staff resources 0.

SaskPower-ISO 14001 Summary of Benefits (2)

- · Better trained and environmentally sensitive staff.
- Improved monitoring and reporting; Reduced regulatory burden.
- Greater focus and attention to priority areas through objective setting and progress monitoring.
- Increased credibility with regulators and customers.

Infasco – ISO 9001 - Summary of Benefits

- · Financial viability ability to ship to U.S. customers
- · Increased credibility with customers
- Better inventory control
- Higher quality products through the use of performance metrics
- · Improved handling of customer complaints
- · More highly trained staff



Jungmittag et. al. (1999) study of the German experience over 1961-1996 found:

 Increases in the quantity of standards are associated with increases in economic output

Department of Trade and Industry (2005) study of the British experience over 1948-2002 found:

Increases in the quantity of standards are associated with increases in labour productivity



Highlights of Findings

Over the 1981-2004 period:

- Standards had a **positive and significant impact** on labour productivity and economic growth in Canada.
- On average, the existence of standards added 0.25 of a percentage point to output growth in Canada each year or 62 B CAD in terms of real GDP during the study period.





Modelling Labour Productivity
Labour Productivity depends upon:
Capital input Labour input
Combining capital and labour in a "SMART" way
Technology Efficiency





Canadian Results

- The positive impact of standards on labour productivity was significant and robust.
- 10% increase in the quantity of standards is associated with a 3.56% increase in labour productivity and economic output

Canadian Results in Context

Over the study period - 1981-2004 period, the growth in standards accounted for:

- 17% of the growth rate in labour productivity (9% growth rate of real output, GDP)
- In 2004, the economic output (real GDP) would have been \$62 B lower if there had been no growth in standards during the 1981-2004 study period







Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/016

Economic and Social Effects of Standardization

Submitted by: Japan Shigekazu Fukunaga Deputy Director Ministry of Economy, Trade and Industry of Japan fukunaga-shigekazu@meti.go.jp http://www.jisc.go.jp

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008







































Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/017

The Value of Standards and Standards Education

Purpose: Information Submitted by: USA Erin Grossi Manager of International Affairs Underwriters Laboratories Inc.

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Perú 10-11 August 2008








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Need for Broad-based Participation · Standards impacted by array of stakeholders Task groups often formed to research new areas of information that could impact the standard (e.g. fire alarm standards improved so people with disabilities can pull them; paper shredder standards improved to not shred kids' fingers) organizations Cert. and building manufacturers and developing new products need new interpretations and revisions to old standards in order to keep innovating. the standard in safety Copyright © 2008 Underwriters Laboratories Inc. ® All rights reserved













Overview	
	Established in 2002
	Global Presence
UL	 Training and development business division of UL
UNIVERSITY	 Responsible for internal staff development, external customer training and enhancement of UL's public safety mission
	ISO 9001 registered
	 Offering accredited content and continuing education units for engineers, electricians, architects, AHJ's and other licensed professionals.
	 Professional instructors qualified through the Train-the-Trainer development program.
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Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/018

Introducing standardization as an input for innovation in high level education in Peru

Submitted by: Peru Augusto Mellado President National Council of Science, Technology and Technological Innovation

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008









1. Peruvian Educational System Public Education in Perú

- 45,00 schools
- 7 million students
- 300,000 school teachers
- Low level in key areas: Reading, mathematics
- 78 universities: 28 publics 41 privates











CONCYTEC Chair

Objective:

 Master and Ph. D. Programs on demand of enterprises and regional government

Motivation:

- · Avoid students desertion on scholarships to foreing universities
- · Promotion of links between enterprises universities
- Generate a critical mass of scientists

Advantages:

- Replicate excelence centers of developed countries
- Research projects under the national plan of science and technology
- Enterprise and regional research project
- · Improvement of life quality in the regions
- Foreing university supervision
- · Promotion of technological enterprises







Objective and Goals

Objective:

• Increase competitiveness and innovation.

Goals:

- Enhance awareness on national and international standards by means of an educational program on standardization.
- Standards application by enterprises and society.

Policies and Normativity

- INDECOPI
- National Science, Technology and Technological Innovation Counsil.
- Regional Autorities: Regional Science and Technology Counsils.
- Ministeries of Production, Agriculture, etc.

Education

- Primary, secondary and superior educational levels
- Technical institutes
- Universities
- Sectorial (R+D+I) Research Institutes
- National (R+D+I) Research Centers (Project)
- National (R+D+I) Research Centers (Project)
- Private (R+D+I) Research Institutes (Project)

Standards Application by Enterprises and Society

- Profesional Associations: Colegio de Ingenieros del Perú
- Industrial Society
- Small and Medium Size Enterprises
- Industrial Unions

Implementation of Objectives

- Preparation of:
 - Teachers
 - Teaching and diffusion materials
 - Pilot projects on Education and diffusion
 - General National, Sectorial and Regional Implementation of Standardization Practices



- Improve product development / design
- Create efficient manufacturing
- Increase effectiveness of marketing, sales and distribution processes
- Be proactive in regulatory environment

Enhance the ability to apply the strategic value of standardization

Stakeholders Cooperation

Private sector:

- Industries •
- NGOs
- Universities and schools
- International organizations •

Government:

- National Institute for the Defense of Competition and the ٠
- •
- protection of Intellectual Property INDECOPI National Council of Science, Technology and Technological • Innovation- CONCYTEC
- Ministery of Education
- Universities
- **Research Institutes**
- **Public and Private Schools**

Conclusions			
 Peru will design a National Program for Education on Standardization. 			
 The goal of the program will be to increase competitiveness and innovation in the country. 			
 The program will involve education on standardization at all levels, with emphasis on professional education for standards application. 			
 We are open to cooperation for the program implementation. 			





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/020

Standars Education

Purpose: Information Submitted by: ICES John L. Hill Vice Chair

john.hill.1911@gmail.com

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





Field of Activity		
Standardization organizations in standardization • ICES Mission is • The mission of standardization	al Cooperation on Educ n (ICES) is a network of nterested in education a n ICES focuses exclusion ICES is to promote educ and improve its quality or all stakeholders.	f individuals and about vely on this area. ucation about
Speaker: John L Hill	Date: August 10, 2008	Overhead sheet 3



Tokyo 2006			
	hether together sufficient address education a		
subject w • Conduct ann • Work togethe experiences.	er to share our knowle	edge and	
Speaker: John L Hill	Date: August 10, 2008	Overhead sheet 5	



Delft 2007				
worldwide by: Support ICES	elopment of education al S participants activities laboration by exchange o			
 Awareness Learning objet Development Availability of Identified a team 	t of content			
Speaker: John L Hill	Date: August 10, 2008	Overhead sheet 7		



Gaithersburg 2008				
to promote	ard achieving our mission education about standardi ad attractiveness for all sta	ization and improve		
 We Will Address: Obtain global p Asia Europe Latin Americ North Americ Endorse ICES' Implement liais 	a ca Strategic Plan			
Speaker: John L Hill	Date: August 10, 2008	Overhead sheet 9		















Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/021

European Academy for Standardization

Purpose: Information Submitted by: EURAS Françoise Bousquet Vice President of EURAS

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008






























Asia-Pacific Economic Cooperation

Summary Recommendations to APEC: Textbook Development and Networking for Education about Standards and Conformance

APEC SCSC Education Project Contact: Donggeun Choi Senior Standards Analyst Korean Standards Association

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





Textbook Development - Contents It is recommended that APEC SCSC develop: Textbook focusing on theory and case studies: fundamentals, economic impacts of standardization Textbook providing linkage between standards and conformance with competitive strategy/innovation **Textbook Development - Considerations** It is recommended that APEC SCSC Consider: Online Availability, e-book . Identification and utilization of existing contents Openness for everyone (for free, creative common licence) Multi-cultural/industry, Both Global/local cases . • Target Group based textbook development

Textbook Development - Considerations

It is recommended that APEC SCSC Consider:

- Online Availability, e-book
- · Identification and utilization of existing contents
- Openness for everyone (for free, creative common licence)
- Multi-cultural/industry, Both Global/local cases
- Target Group based textbook development

Networking – Internal (APEC)

- · Build a APEC-wide network for standards education and research
 - Among Academic/professional experts
 - Among Faculty/teachers/educator

Networking - External

It is recommended that APEC SCSC

- To liase with Research Society focusing on or related to Standards and Conformance
 - EURAS, SES, SIIT, ICES(education)
 - Related to Management of Business, Technology, Innovation; Public Policy, Law/Regulation/Trade
 - Universities and Schools, Educational Instutiions, Research Instutions
 - To liase with Standards related Organizations
 - ISO, IEC, ITU, IFAN
 - SRBs, NSBs, SDOs





Session III: Trade facilitation







Overview Session III: Trade facilitation

Session 3, on Trade Facilitation, continued the discussion of the trade and technical aspects of product related environmental technical regulations, standards and conformity assessment procedures. Reflective of the trade impact in the APEC region of these regulations, the information exchange focused exclusively on the various directives of the European Commission (EC), including those related to life-cycle product design (EuP); restrictions on hazardous substances (RoHS); registration, evaluation, authorization and restriction of chemicals and products containing chemicals (REACH); and the registration, take back, recycling and disposal requirements relating to electrical and electronic equipment (WEE).

Representatives of both industry and governments provided useful and informative updates on implementation of these directives, both by the EC and its 27 member states. Participants shared their perspectives on efforts by APEC member governments and industries to adapt to these regulations, including dealing with the costs of compliance and the impact on transactions throughout the supply chain, including the particular difficulties faced by small and medium-sized enterprises. This session was moderated by Ms Julia Doherty, TFTF Co Chair.

The presentations for this session were:

- Introduction to the TFTF Seminar impact of environmental regulations, standards on trade facilitation in APEC, Ms Julia Doherty, TFTF Co Chair, USA.
- EU RoHS Directive Next Revision, Ms Beth A. Hulse, GE Healthcare, USA.
- Singapore's Initiatives to support industries for RoHS and REACH, Ms Rachel Choy, SPRING, Singapore.
- The EuP Directive and Implementing measure, Mr Takao Sato, Ricoh Company, Ltd. from Japan on behalf of Mr. Kun-Mo Lee, TFTF Co Chair, Korea
- Preparations and actions being taken in Japan for EU Environmental Regulation, REACH, Mr Takao Sato, Ricoh Company, Ltd. from Japan.
- U.S. Industries Experience with REACH, Mr Jim De Lisi, Fanwood Chemical Inc, USA.
- Thailand response to the EuP, Mr Charuek Hengrasmee, Electrical and Electronic Institute, Thailand.

This session provided an opportunity to exchange views and experiences on the impact of environmental standards, product related environmental regulations and conformity assessment procedures.

The recommendations in this session were:

- SCSC Trade Facilitation Task Force continue to discuss challenges APEC members face in the implementation of problematic EU directives such as, RoHS, REACH and EuP, and to cooperate on standardizing activities related to environmental regulation.
- Encourage the TFTF to discuss new or emerging proposed product related-environmental regulations that may have significant impact on exporters from APEC member economies.

Speakers Session III

In order of final agenda



1. Ms Julia Doherty, Co Chair, Trade Facilitation Task Force (TFTF), USA

Ms Doherty is Senior Director in the Office of World Trade Organization (WTO) and Multilateral Affairs of the United States Trade Representative (USTR). She is responsible for developing, coordinating and implementing U.S. trade policy positions on international standards, conformity assessment procedures, technical regulations and other non-tariff matters. She represents the United States on the trade issues in the WTO, the Asia-Pacific Economic Cooperation (APEC) and other international organizations.

2. Ms Beth A. Hulse, Global Regulatory Manager, GE Healthcare, Environmental Products & RoHS, USA

Ms Hulse is the GE Healthcare Global Regulatory Manager for Environmental Products in addition to the Global Manager for International Trade Control Digitization. As the Regulatory Manager, she is responsible for keeping the business abreast of new environmental regulations worldwide that impact the products and the environment, and leading the GE Healthcare RoHS program across all businesses and functions to ensure execution and compliance with the regulations.





3. Ms Rachel Choy, Manager Quality Assurance Services, SPRING, Singapore

Ms Choy is in charge of REACH assistance with SPRING's Export Technical Assistance Centre (ETAC) and provides general REACH advisory to Singapore industries. She is also involved with developing REACH guidance materials, outreach programmes and strategies to assist local industries. Ms. Choy is an Applied Science graduate from Deakin University, Australia.

4. Mr Takao Sato, General Manager, Corporate Environment Division, Ricoh Company Ltd, Japan

Mr Sato is Japan's representative of Advisory Council on Environmental Aspects (ACEA) at the International Electrotechnical Commission (IEC) and he is a Japanese expert for IEC Technical Committees of Environmentally Conscious Design, Environmental Terminology and Recycle. Also, he is an executive committee member of the "Eco-Design International Symposium in Japan".





5. Mr Jim De Lisi, President, Fanwood Chemical Inc, USA

Mr De Lisi specialization is on Sale of Organic Intermediates in North America, South America and Europe, Tariff & Trade Affairs, monitoring of Imports & Exports and REACH. Also, he has a Masters in Business Administration on Chemical Marketing. Currently, he is President of Fanwood Chemical, Inc.



6. Mr Charuek Hengrasmee, President, Electrical and Electronic Institute, Thailand

Mr Hengrasmee joined the Electrical and Electronics Institute (EEI) as Vice President in 2000, becoming President from 2003 until presently. He has been involved during the past five years in numerous international projects, workshops & policy dialogues in the areas of capacity building, standards & conformity assessment in trade, resources, sustainability development, etc. These activities were organized and supported by various international organizations such as EU-SPF, EU-ASIA Eco Pro, UNCTAD, UNESCAP, UNEP, UNU, and OECD-InWent, among others.





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/022

Introduction to the TFTF Seminar impact of Environmental Regulations, Standards on Trade Facilitation in APEC

> Submitted by: Korea Kun-Mo Lee Eco-product Research Institute AjouUniv, Korea kunlee@ajou.ac.kr

Presented by: Julia Doherty, TFTF Co Chair julia_doherty@ustr.eop.gov

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





















Conformity assessment and CE marking

- Before placing an EuP covered by IM on the market and/or putting such an EuP into service,
- the manufacturer or its authorized representative shall ensure that
- an assessment of the EuP's conformity with all the relevant requirements of the applicable IM is carried out.

+ ERI

























Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/023

EU RoHS Directive

Submitted by: GE Healthcare Beth A Hulse Global Regulatory Manager - Environmental Products

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



EU RoHS Directive - Next Revision

Agenda:

- Overview of GE and GE Healthcare
- Next revision of EU RoHS Directive:
 - Review of current exemptions
 - · New hazardous substances under review
 - Spare Parts inclusion
 - Inclusion of Category 8 & 9
 - · Results of EU Commission consultant studies
 - · Timing for next revision

· Enforcement & non-compliance across EU member states

B. Hulse 2008 slide#1

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EU RoHS	diff.
The Restriction of the Use of Hazar	dous Substances
RoHS Directive (2002/95/EC):	
EU Directive to limit hazardous substances in ele equipment	ctrical and electronic
 Focus on six substances: Lead, Cadmium, Mercury, Hexavalent Chrom biphenyls (PBB) and Polybrominated dipheny 	
2005/618/EC:	
Amending directive establishing maximum conce	entration
Lead Cadmium Hexavalent chromium Brominated plastics (PBB, PBDE) Mercury	0.1 % 0.01% 0.1% 0.1% 0.1%
36	B. Hulse 2008 slide#5













Table 8 List of candidates for potential inclusion in RoHS							
ID	Substance name	CAS-No.	Hazard	Arguments in favour of inclusion into RoHS			
1	Tetrabromo bisphenol A (TBBP- A)	79-94-7	N; R50/53 ³²	Use as additive fiame retardant may result in risks for the environmental compartments water, sediment and agricultural soil For the use as additive fiame retardant in ABC sufficient halogen-free alternatives are available Monitoring data show detections of TBBP-A in blota remote areas Risk of formation of PBDDs and PBDFs Epoxy resins used in PCBs cannot be recycled by remeiting			
2	Hexabromocyclododecane (HBCDD)	25637-99-4	Proposed classification: N; R50-53; PBT	 Substance of very high concern: PBT substance Used as additive flame retardant in HIPS; HBCDD may leach out of polymer matrix For the use as additive flame retardant in HIPS sufficient halogen-free alternatives available Monitoring data show detections of HBCDD in rural and remote areas; several studies report increasing concentrations of HBCDD in blota Risk of formation of PBDDs and PBDFs 			
3	Bis (2-ethylhexyl) phthalate (DEHP) ³³	117-81-7	Repr. Cat. 2; R60-61	- Substances of very high concern: reprotoxic Cat. 2 and endocrine disruptors Cat. 1			
4	Butylbenzylphthalate (BBP)34	85-68-7	Repr. Cat.2; R61 Repr. Cat.3; R62	 Phthalates are not chemically bound to the plastic, but dispersed in the matrix. Thus, they may be released out of the material over time leading to emissions to the environment. 			
	46 Hi	gh Pri	ority Sub	ostances Reduced to 8			

ID	Substance name	CAS-No.	Hazard classification	Arguments in favour of inclusion into RoHS
5	Dibutylphthalate (DBP) ³⁵	84-74-2	N; R50-53 Repr. Cat. 2; R61 Repr. Cat. 3; R62 N; R50	 Monitoring data indicate an ubiquitous presence of DEHP, BBP and DBF in blota and environmental compartments Non-phthalate plasticisers and alternatives to PVC are available
6	Medium-chained chlorinated paraffins (MCCP) (Alkanes, C14-17, chloro)	85535-85-9	currently not classified according to 67/548, proposed classification: N; R50/53 Endocrine disruptor, Cat 1 (according to EDS database)	Substances of very high concern: endocrine disruptors Cat. 1 MCCPs are persistent, have a high potential for bioaccumulation in fish indicated by high fish bio-concentration factors and are very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment Proposed to be classified with the risk phrase "May cause harm to breas fed babies" MCCP have been found in the food chain, including in fish, in cow mill and in breast milk Monitoring data from Norway show widespread occurrence in the environment Risk of formation of PBDDs and PBDFs
7	Short-chained chlorinated paraffins (SCCP) (Alkanes, C10-13, chloro)	85535-84-8	Carc. Cat. 3; R40 N; R50-53	Substances of very high concern: endocrine disruptors (Cat. 1) & PBT substance included in the priority list of Hazardous Substance of the Europear Water Framework Directive included in the POP convention regulated by Directive 76/769/EC and REACH Annex XVII (item 27) Monitoring studies identify SCCP as body burden in biota Risk of formation of PBDs and PBDFs
ID	Substance name	CAS-No.	classification	Arguments in favour of inclusion into RoHS
8	Nonyiphenol/ Nonyiphenol ethoxylates	25154-52-3 9016-45-9	Endocrine disruptor, Cat 1 (according to EDS database)	Substances of very high concern: endocrine disruptors Cat. 1 Bioaccumulative and very toxic to aquatic organisms Norylphenol is included in the priority list of Hazardous Substance of the European Water Framework Directive







Challenges for Medical Device Industry

Accurate medical diagnosis is critical

Critical Information for Doctors

Accurate diagnosis for the patients

RoHS Compliant designs must not compromise system reliability

88)



B. Hulse 2008 slide#17



Considerations When Designing for RoHS



Category 8 & 9 ERA Recommendations from ERA Report 2006-0383- Final Report "After reviewing the RoHS Directive and determining whether it is possible to include Categories 8 and 9, there are several options that could be followed: **Option 1:** Continue to exclude Categories 8 & 9, carry out review in 2010 or 2012. Option 2: Continue to exclude Categories 8 & 9 but encourage eco-design. Option 3: Include Category 8 & 9 products within the scope of RoHS: a. from a single specified date but with a list of justified exemptions & exceptions; or b. from a number of different specified dates depending on the type of equipment but with a list of justified exemptions and exceptions." B. Hulse 2008 slide#20

B. Hulse 2008 slide#19












RoHS Market Surveillance in Belgium

Information provided by M Sc Eng Denis POHL, Directorate-general Environment

88 Electrical/Electronic Products screened w/portable XRF

112 XRF-scans

20 % one or more haz. substances above Max. Conc. Limit

Of 27 products that failed screening... further inspections (dismantling + lab)

120 XRF measurements on the parts

14% tested positive for Cd, Cr, Pb or Br/Sb

Spot-test screening for detecting Cr(VI), 5 tested positive

All lead found with screening, confirmed with analytical testing

1 positive result for cadmium, 0 for the presence of mercury observed with the portative XRF system...results confirmed with lab analysis

Overall, 44% tested non-compliant

RoHS is enforceable!



1. RoHS Compliance Certificate from importer/producer

86)

- 2. Test results supporting the Compliance Certificate for the specific product
- 3. Description of the **RoHS Compliance Assurance System** of the company placing the products on the Belgian market:
 - Importers: Need Compliance Assurance System for the producer
 - For manufacturer: Need internal CAS and procedures for control of the component suppliers

B. Hulse 2008 slide#28

UK RoHS Enforcement Guidance

Enforcement

40. It is the duty of the National Weights and Measures Laboratory...to enforce these Regulations.

41. Various powers of enforcement are available, including:

• Making test purchases.

• Requiring the production of **compliance documentation** and other information which may provide evidence as to whether or not the Regulations have been complied with in a particular case or class of cases.

- Inspecting processes and performing analytical tests.
- Issuing a **compliance notice** requiring certain action to be taken.

• Issuing an enforcement notice requiring non-compliant **goods to be** withdrawn from the market or prohibiting or restricting the placing of non-compliant goods on the market.

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B. Hulse 2008 slide#29



Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/024

Singapore's Initiatives to Support Industries for RoHS and REACH

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008







Dbjectives(1/2) Assistance with technical barriers & problems Maintain database of information on standards & export requirements Track changes & developments in international standards & market-specific technical regulations Analyse & assess impact of critical changes to industry needs for process changes testing & certification requirements



Export Technical Assistance Centre (ETAC) Key initiatives • Promote awareness & adoption

- Outreach programmes

SPRING

- Industry compliance programmes
- Updates on export requirements in specific sectors & markets
- Identify & nurture testing & certification needs
 - Testing & certificate services related to export requirements
- Strategic participation in international & regional fora



Environmental-related Regulations

The Waste in Electrical & Electronic Equipment (WEEE)
 Directive

- The Restriction of Hazardous Substances (RoHS)
- The Energy using Products (EuP) Directive
- The Battery Directive

SPRING

- Registration, Evaluation, Authorisation and Restriction
 - of Chemicals (REACH) Regulation







REACH Challenges for Singapore Companies

REACH impact study carried out in 2007

- Online survey targeted at chemical and allied industries Key Findings:
 - -/Critical lack of awareness and understanding of REACH
 - Awareness limited to those in chemical clusters
 - Companies in non-chemical sectors eg: plastics, rubber & electrical & electronics likely to be affected but unaware of obligations and impact on their businesses

Other Challenges

- Customer requirements for REACH registered products within the supply chain
- Exporters to the EU or downstream users may be required to bear some of the associated costs
- Need to communicate with EU suppliers to ensure that they will **pre-register** and register the substance supplied to the company

- Ensure uses are covered within the registration if products are exported back to the EU

SPRING





























Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/025

The EuP Directive and Implementing Measure

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



Table of contents

- I. EuP Directive: Introduction
- II. EuP Directive: Manufacturer's obligation
- III. EuP Directive: Implementing measure
- IV. EuP Directive: Working plan
- V. Summary







Ecodesign

- No experience by the manufacturers
- Select ecodesign parameters for product design
- Choose design options leading to the improvement of the product environmental performance

New Approach

- Provides basic framework of the requirements in the Directive
- No detailed implementing measures such as limit values or guide such as specific methods for the implementation of the directive
- Particulars are in the implementing measures and standards

Scope

• EuP Directive Deals with

- the **environmental aspects** of the product (e.g. energy consumption), which can be linked to the environmental impacts and can be substantially mitigated by improving product design

Generic/specific ecodesign requirements

• Generic ecodesign requirements:

Any ecodesign requirements based on the ecological profile of an EuP without set limit values for selected environmental parameters: They also include information disclosure requirements and manufacturers obligations.

- Ecodesign requirements are any requirements related to the design an EuP, intended to improve its environmental performance.







Market surveillance (MS)

•MS obliged to ensure that only conforming products are placed on the market

- •MS to set up surveillance organization
- •Cooperation between MS and Commission
- •MS to report on activities and results



Manufacturer's obligation

- Assess environmental aspects of the product (develop ecological profile)
- Design and develop product by meeting generic/specific ecodesign requirements
- · Conformity assessment and CE marking

Assess environmental aspects of the product (ecological profile)

- Addressing the environmental aspects identified in the IM as capable of being influenced in a substantial manner through product design,
- · Manufacturers of EuPs will be required to perform an
- assessment of the EuP model throughout its lifecycle, based upon realistic assumptions about normal conditions and purposes of use. (product modeling and environmental assessment)
- Other environmental aspects may be examined on a voluntary basis.

Assess environmental aspects of the product (ecological profile)

 On the basis of this assessment manufacturers will establish the EuP's ecological profile. It will be based on:

- environmentally relevant product characteristics and inputs/outputs (Ecodesign parameters, see Annex I part 1) throughout the product life cycle expressed in physical quantities that can be measured.

Design and develop product by meeting generic/specific ecodesign requirements

Manufacturers will make use of this assessment to evaluate alternative design solutions and the achieved environmental performance of the product against benchmarks*.

* The benchmarks will be identified by the Commission in the IM on the basis of information gathered during the preparation of the IM.

Conformity assessment and CE marking

 Before placing an EuP covered by IM on the market and/or putting such an EuP into service, the manufacturer or its authorized representative shall ensure that an assessment of the EuP's conformity with all the relevant requirements of the applicable IM is carried out.

Conformity assessment and CE marking

2. The conformity assessment procedures shall be specified by the IM and shall leave to manufacturers

- the choice between
 - the internal design control set out in Annex IV and
 - the management system set out in Annex V.





Implementing Measure

- It is the regulation, not directive. Immediate effect
- Title: Ecodesign requirements for standby and off mode electrical power consumption of electrical and electronic household and office equipment
- Vote by the regulatory committee on July 7, 2008

Implementing measure structure

- Subject matter and scope
- Definitions
- Ecodesign requirements
- Verification procedure for market surveillance purposes
- Benchmarks
- Revision
- Entry into force

List of EuPs covered by this regulation

- 1. Large household appliances
- 2. Small household appliances
- 3. Information technology equipment intended primarily for use in the domestic environment
- 4. Consumer equipment
- 5. Toys, leisure and sports equipment

List of EuPs covered by this regulation

- 1. Large household appliances
- · Washing machines
- Clothes dryers
- Dish washing machines
- Cooking
- Electric ovens
- Electric hot plates
- Microwaves
- Other large appliances for cooking and other processing of food

List of EuPs covered by this regulation

2. Small household appliances

- Toasters
- Fryers
- Grinders, coffee machines and equipment for opening or sealing containers or packages
- Electric knives
- Appliances for hair cutting, hair drying, tooth brushing, shaving, massage and other body care
- appliances
- Scales

List of EuPs covered by this regulation

4. Consumer equipment

- · Radio sets
- Television sets
- Videocameras
- Video recorders
- · Hi-fi recorders
- · Audio amplifiers
- Musical instruments
- And other equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image than by telecommunications

List of EuPs covered by this regulation

5. Toys, leisure and sports equipment

- Electric trains or car racing sets
- · Hand-held video game consoles
- Sports equipment with electric or electronic components

Ecodesign requirements

- Two phases of implementation
- One year after this regulation
- Power consumption: off mode < 1.00 W
- Standby mode <2.00 W
- Four years later
- The values are halved.

Conformity assessment

The procedure for assessing conformity shall be

- The internal design control system (Annex IV) or
- The management system (Annex V)

Benchmarks

- Off mode: 0 W 0.3 W
- Standby reactivation function: 0.1 W
- Standby display: simple displays and low power LEDs 0.1 W, larger displays (e.g. for clocks) require more power.

Conflict: Horizontal versus Vertical Measures

- Horizontal: Implementing measure for standby and off-mode losses is intended to cover energy-using products broadly
- Vertical: Implementing measure for **dedicated product groups** will include also standby and off-mode losses of this product group
- It is expected, that the IM for a dedicated product group overrules horizontal IM
- Horizontal IM might be applicable for a transition period until vertical IM is in force
 (products covered by coming preparatory studies)



Working plan of the Ecodesign Directive (2009 – 2011)

Objective

Setting out for the three following years (2009-2011) **an indicative list of energy-using product groups,** which are considered as priorities for the development of implementing measures.

Ecodesign Directive shall cover

• Environmentally significant product characteristics,

>energy consumption in the use phase,

➢ resource consumption in the production phase,

≻hazardous substances,

≻waste reduction,

>extension of lifetime or

modular assembling enabling repair and recycling of the product or its components.

Implementing measures

- are considered when no valid self-regulatory initiative has been taken by industry
 - Self-regulation by industry, including voluntary and unilateral commitments,
 - provide for quick progress due to rapid and cost-effective implementation,
 - allows for flexible and appropriate adaptation to technological options and market sensitivities.

The transitional period (2005 – 2008)

- ➤The period between the entry into force of the
 - Ecodesign Directive and the adoption of the working plan
- ➤ 14 preparatory studies were finished and Mid-2008 the other 5 preparatory studies are still ongoing.

Energy-Using Product Groups covered in the Transitional Period

Measures planned to be adopted by the Commission in 2008

- Tertiary sector lighting products
- Stand-by and off-mode losses
- External power supplies
- Simple set top boxes
- Measures planned to be adopted by the Commission in spring 2009
 - Domestic lighting products I (including incandescent bulbs)
 - Televisions

Measures to be submitted for vote in the Committee in 2008 and 2009

- Boilers
- > Water heaters
- > Washing machines, dishwashers
- > Domestic refrigeration, freezers
- > Commercial refrigeration
- Electric motors
- Circulators (originally under electric motors)

- > Computers
- Imaging equipment
- Electric pumps (originally under electric motors)
- Fans for ventilation in non residential buildings (originally under electric motors)
- > Room Air Conditioners
- Domestic fans (originally under room air conditioners)

Other measures (preparatory studies finishing in 2009)

- > Complex set top boxes
- ➤ Laundry Driers
- Vacuum Cleaners
- Domestic lighting products II

(reflector lamps and luminaries)

Solid Fuel Boilers

Working plan study

• 25 product groups chosen (A ranked, 9 product

groups B ranked) out of 57 screened

•Criteria:

 The primary energy consumption in the use phase to identify the product groups with the highest contribution to climate change and resource depletion

Assessment criteria of the 25 product groups

- The Product group;
 - represents a significant volume of sales and trade within the Community,
 - has a significant environmental impact within the Community resulting from the energy-using products during their life cycle,
 - presents significant potential for improvement in terms of its environmental impact without entailing excessive costs

Indicative list of energy-using product groups of the working plan

- Air conditioning systems and heat pumps
- Electric and fossil fuelled heating equipment
- > Food preparing equipment
- In house networking and data processing, storing and providing equipment
- Industrial and laboratory furnaces and ovens

- Machine tools
- > Refrigerating equipment
- Sound and image processing machines and equipment
- > Transformers
- Water-using equipment
- A preparatory study: 2009 2011
V. Summary

- EuP Directive: Introduction
- EuP Directive: Manufacture's obligation
- EuP Directive: Implementing measure
- EuP Directive: Working plan
- After all, it is the Trade









Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/026

Preparations and Actions Being Taken in Japan for EU Environmental Regulation, REACH

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



How companies in Japan try to cope with

EU REACH

1. Requirements which Industries are very concerned with REACH

- <u>On request by a consumer</u> any supplier of an <u>article</u> containing a substance in a concentration <u>above 0,1 %</u> (w/w) shall provide the consumer with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. (*REACH Article 33*).
- The relevant information shall be provided, <u>free of charge</u>, <u>within 45 days</u> of receipt of the request. (*REACH Article* 33).
- Any actor in the supply chain of a <u>substance</u> or a <u>preparation</u> shall communicate the following information to the next actor or distributor up the supply chain: (REACH Article 34).
 - (a) new information on hazardous properties, regardless of the uses concerned;
 - (b) any other information that might call into question the appropriateness of the risk management measures identified in a <u>safety data sheet</u> supplied to him, which shall be communicated only for identified uses.

Distributors shall pass on that information to the next actor or distributor up the supply chain.

2. Problems in duty to communicate in supply chain

- Coping with REACH by conventional approach needs tremendous burden
 - <u>Difficult</u> for down-stream users to <u>collect accurate information</u> by inquiring up long and complicated supply chain.
 - Survey and information communication takes a lot of time.
 - > <u>Accuracy</u> of information <u>deteriorates</u> in supply chain.
- There are <u>no rule or methods outside EU</u> to appropriately transfer and disclose information on substances contained in article.
 - Automobile Parts Industry

JAMA Sheet IMDS (GADSL)

JGPSSI format (JIG)

- Automobile Industry
- Electrical and Electronic Industry
 - JEMA: Japan Automobile Manufacturers Association
 - IMDS: International Material Data System
 - GADSL: Global Automobile Declarable Substance List
 - JGPSSI: Japan Green Procurement Survey Standardization Initiative
 - JIG: Joint Industry Guideline

3. Two different approaches

· Information from "Up Stream to Down Stream" (On request).



Information from "Up and Middle Stream to Down Stream" (Voluntary).



4. Difficulty to obtain accurate information

- Industries in Japan also face difficulty to get <u>accurate information on regulated substances</u> in supply chain.
- This makes companies difficult to cope with <u>"Material Declaration"</u> requested in tender business, etc.
- <u>Strong leadership</u> is being taken in <u>IEC TC111</u> (Environment) <u>WG1(Material Declaration)</u>
 - Method of global and uniformed approaches of "Material Declaration" and its <u>relevant database</u> will be established in the future.
- Industries in Japan are also very interested in the project of IEC TC111 WG1.
 - JGPSSI (JIG) and JAMP also try to establish systems to respond to possible future need in harmony with international projects.

5. JAMP proposes a cross-industrial scheme

- <u>JAMP</u> (Joint Article Management Promotion-Consortium) was established on September 11, 2006 as an <u>industrial</u> <u>cross-sectoral group</u> that promotes activities across <u>the entire supply chains</u>.
- Aims to <u>contribute to all those</u> involved in management activities of chemical substances contained in products in supply chain.
- JAMP establishes <u>information systems</u> which encourage middle to upstream suppliers to provide downstream users with information necessary for material declaration <u>including REACH on voluntary basis</u>.
- This will make downstream users and also middle to upstream suppliers easier to cope with REACH in a <u>reliable</u>. <u>systematic and efficient manner</u>.

6. JAMP provides a guideline & two tools (MSDSplus & AIS)



- JAMP provides two tools.
 - > JAMP MSDSplus (hereinafter MSDSplus)
 - ➢ JAMP AIS (hereinafter AIS)
- Sections required in MSDS in Japan are basically the same as that of SDS required in REACH.
- MSDSplus presently covers (1) CMR Cat.1, Cat2 of 76/769/EEC, (2) 67/548/EEC, (3) RoHS and (4) ELV in EU and three Regulations in Japan.
- Numbers of Directives and Regulations covered by MSDSplus are <u>subject to change</u> in progress of activities of JAMP.
- MSDSplus is designed to be used <u>together with</u> the current MSDS for <u>supplement information</u> like quantitative chemical concentrations.
- Information for AIS (Article Information Sheet) is formulated using information in MSDS and MSDSplus.
- 7. Which regulations are presently covered by "MSDSplus"

EU	No of items	Japan	No of items
• <u>RoHS</u> Directive 2002/95/EC	6	 Chemical Substances Control Law (Class I specified chemical substances) 	16
• ELV Directive 2000/53/EC	4	 Industrial Safety and Health Law (production prohibition substances) 	8
 Directive 67/548/EEC Annex I CMR categories 1 & 2 (classification, packaging and <u>labelling</u> of dangerous substances) 	830+ M:	 Poisonous and Deleterious Substances Control Law (Specified poisonous substances) 	10
 Directive 76/769/EEC (excluding 67/548/EEC Annex I CMR categories 1 & 2 restrictions on the marketing and use of certain dangerous substances and preparations) 			

8. "SDS" and "extended-SDS " in EU



9. "MSDS" and "MSDS Plus"

MSDS	(Japan) JIS Z7250	MSDSplus (Japan)
Same as the		 Name of chemical/product and information on <u>MSDSplus</u> provider Name of chemical substance / CAS No. to be managed Rate of content Name of regulation, etc. to administer constituents contained in product

- AIS is formulated using MSDS and MSDSplus for <u>each part or part assembly</u> by product
 - AIS mainly contains the following information

No.1 Information on AIS provider

> Company ID, company name, address, etc.

No.2 Information on AIS

> Manufacturer name, common name, model No., etc.

No.3 Information on composition

- ➢ Unit: piece, m, m², m³, Mass: Kg, g, mg
- > Material: Purpose, name, classification No., official material standard No.
- Substance: Name, CAS No., rate of content, mass: Kg, g, mg

No.4 Information to be communicated

- Compiled and edited information from the above 1 to 3
- Concentration of specific substance per article
 <u>Regulated substances</u>
- Information on materials in article

- Two different methods to aggregate information in AIS can be used. One is "<u>Simplification</u>" and the other is "<u>Integration</u>".
- <u>Simplification</u> is to provide separate information on composition, (1) materials containing substances regulated and voluntarily declarable, (2) materials containing substances regulated and (3) common materials in similar or the same categories regardless of inclusion of substances regulated or voluntarily declarable.
- <u>Integration</u> is to encompass the following information on composition in one AIS, i.e. (1) material containing regulated substances, (2) material containing substances not regulated but voluntarily declarable, (3) material neither containing substances regulated nor voluntarily declarable and combination of these (1), (2) and (3).
- The information system of AIS is designed that it does not allow the materials containing regulated substances to be deleted throughout the supply chain.
- JAMP aims to cope with the need of IEC TC111 and existing schemes.
- <u>The information system</u> for AIS will be improved so that necessary information required by the guidelines, material and substance lists of <u>JGPSSI (JIG)</u>. <u>IMDS or GADSL</u> can be obtained from the system and workable as an input tool for these in the future.

No. 4: Information to <u>be</u> communicated in AIS Integrated information Simplified information on composition on composition <u>Substances</u>, materials regulated and voluntarily declarable _ ---Inf dcated Substance and material regulated Material inform ation in Article MSDSplus Information on the including regulated materials . -Material containing substances regulated Material containing substances not regulated but voluntarily declarable Material neither containing regulated nor voluntarily declarable Source: JAMP

10. Simplification and Integration of MSDSplus and AIS

11. JAMP aims to global operation





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/027

US Industries Experiences with REACH

Purpose: Information Submitted by: USA Jim DeLisi Chairman SOCMA's International Trade Committee

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



SOCMA: History & Mission

Synthetic Organic Chemical Manufacturers Association was founded in 1921. Since then, SOCMA has:

- Spoken for and served batch, custom and small chemical companies.
- Promoted innovative, safe and environmentally responsible operations.
- Is a recognized and respected voice in Washington, D.C.

SOCMA: History & Mission

Approx. 300 members Specialty, Batch & Contract chemical manufacturers Global membership

Suppliers to the industry

80% small businesses

- < \$50 million in annual sales

- < 200 employees

Staff of 35 located in Washington, DC

SOCMA Members: Markets Served

Pharmaceutical Fine Chemicals Cosmetics and Toiletries Personal Care Soaps and Detergents Industrial Products Construction Products Textiles

Household Products Agricultural Products Electronics/computers Food Performance Chemicals Plastics Petrochemicals

REACh Concerns & Experiences of our Members

Macro Concerns

• The implementing rules are still in transition. It is not a completed regulation.

• Can ECHA, a brand new agency, effectively administer this complicated regulation?

- The fact that IUCLID 5 has had a rocky start is not a good sign!
- US EPA has been skeptical that this rule can be effectively administered



Only Representative

- Cost
- Availability
- Accountability
- Independence
- One "OR" per foreign Manufacturer

Intellectual Property Rights

- Non Biocidal uses of Biocides
- Additives
 - Non-hazardous additives below 1% are not listed on our MSD sheets – may have to be disclosed under REACh.
- Confidential Formula may have to be disclosed.
- Unique "Identifiers" how will they be used?
- SIEF participation
 - One substance one registration

Anti-Trust

REACh compliance, if not done very carefully, could potentially involve a breach of U.S. Antitrust Laws!

Polymers

- Polymers can not be registered
 - IPR
 - "Hazardous Monomers"
 - Very complex for Paints, Coatings, etc that can contain multiple polymers

US Based Trading Companies

- Non EU based traders can not register without the permission of the manufacturer:
 - A non-EU based trader must partner with the manufacturer of materials destine for the EU – can be both an IP and contracting problem since a non-EU manufacturer can only work through one "OR".
 - Those with EU platform may change the way they invoice customers to allow their EU company to invoice – reducing US income – and the taxes it generates.

Pharmaceuticals

- Definition of the word "IN" for Intermediates
 - Confusion: Do sole pharmaceutical use intermediates need to be registered? If so, the lack of EINECS or ELINCS numbers for many will cause disruptions.

Cosmetics

Lack of EINECS and/or ELINCS numbers has already caused disruptions

Product Substitution and Withdrawals

- Will impact US Production
 - Domestic sales
 - Export sales
- Will have consequences for worldwide demand.

Intra-company Transfers

- Much of US/EU trade in Chemicals is Inter-Company transfers.
 - Products manufactured in the EU but not consumed in the EU are covered by REACh. This was not the case with EINECS or ELINCS (or TSCA).
- May encourage big companies to alter their invoicing patterns resulting in reduced US sales.
- IT challenge is enormous!

Candidates List

- Creates a "banned" list of substances without the need for sound science.
- May take decades to review.
- May "force" substitution with untested materials.

Domestic Dilemma #1

I've got \$1 M in sales in the EU and I need to register 50 compounds.

Domestic Dilemma #2

I'd abandon my sales in the EU but the plant across the street will no longer be able to purchase my chemicals if I don't continue to supply their EU facilities.

Domestic Dilemma #3

I don't have any exports to the EU but my most important customer is telling me if I don't comply with REACh he can no longer buy my products.

SOCMA's Role

- Support our membership with seminars and advice.
 - INFORMEX 2009 in January
 - Webinars
 - Expert Advice
 - Consortium formation
- Recommended Partners
- Work to avoid the spread of REACh like regulations, especially into the USA.





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/028

Thailand Response to the EuP

Submitted by: Thailand Charuek Hengrasmee President Electrical and Electronics Institute

charuek@thaieei.com

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008











10-11 August, Casco, Peru 10-11 August, Casco,











ı—]	Thailand response t	0	th	e]	Eı	ıP	_	A PEC	Ecc	APEC Asia-Pacifi conomic Coop	fic seration
		S	ummary of Experience and Progress										
	ated E s/Dire		"Key" Activities &	0 0	0 1	02	0 3	0 4	0 5	0 6	0 7	0 8	0 9
WEEE	RoHS	EuP	Experiences			TES.				ĥ			
X	X	X	National Subcommittee for impact follow up and policy determination to EU Directives on WEEE and RoHS	X									
X	X	X	Study project, Study & research: legislative study, economic impact, LCA, eco-design, WEEE, RoHS, impacts and measures (ASIAN and EU), existing and suggested local e-waste mgmt.			×							
X	X	X	National Subcommittee for EU–IPP			X							
X	X	X	MOI established Committee (24 inter-ministerial members) to follow-up & handle EU environmental directives.	5					X	X	X		X
X	X	X	International meeting on IEC TC111/WG2 (FTI/EEI), Bangkok							X	X		
X	X	X	International Conference on Green and Sustainable Innovation 2006 – 2007 (CMU/EEI/MTEC) Chiengmai							X	X		
X	X	X	Thailand Electrical and Electronic Green Society (International Conference) EEI/MTEC/FTI/DEP-MOC								Ж		И



		Su	mmary of Experience and Progress										
	lated E es/Dire		"Key" Activities &	0 0	0 1	02	0 3	0 4	0 5	0 6	0 7	0 8	09
WEEE	RoHS	EuP	Experiences			us?		and a					
		Ж	Eco-design Contest (TGDN/MTEC)									X	
X	X	X	Integrated Capacity Building to the Thai Electrical and Electronic Industry on recent comprehensive EU Environmental Requirements (EEI/TUBS/TUB/UNU EHS/ Thailand-EC Cooperation Facility) (pending)					4				X	
		X	Thai Electrical and Electronics Sector and the European EuP Directive: Supporting the Harmonization of Thai and EU Policies and Legislations (TEESEuP) (EEI/ DS/ Thailand-EC Cooperation Facility) (pending)			K						X	
		X	Promoting transparent and preventive practices in the Thai electrical and electronics industry: building upon the frameworks of the REACH and EuP regulations (EEI/ASD/ Thailand-EC Cooperation Facility) (pending)	1								X	
X	X	X	Asia Eco-Design Electronics Networks (AEDEN) (CfSD/ELCINA/RUC/LIU/SWITCH-Asia Promoting Sustainable Consumption & Production) (pending)							6		X	

i	LCA & Related EcoDesign Projects / Activities in Thailand (Prior to	2005)
	Organization	No. of Projects
Government	MTEC-CTAP	6
NGO	Thailand Environment Institute (TEI)	6
University	Asian Institute of Technology (AIT)	6
	Chiang Mai University (CMU)	8
	Chulalongkorn University (CU)	5
1	The Joint Graduate School of Energy and Environment (JGSEE)	10
	Khon Kaen University (KKU)	1
	KingMongkut university of Technology (Thonburi) KUTT	>3
	Kasetsart University (KU)	14
	Mahidol University (MU)	1





	ey perfor	mance Indicato omparison)	or)
L	Unit	Green Camp (TH.Gov.)	SPF-LCAED (EU)
Expert training	Man	15	2
Train the trainer	Man	200	18(10 EEI)
Industrial trainees	Man	1000	150
Curriculum	Level	2	1
Manual / Text book	Unit	3	1
Web site	Web	1	-
Service Network	SYS	1	
Thai Software	Unit	1	
Database	SYS	1	-
Consulting	Proj.	10	8
Pilot Project	NO	2	
Communication / Seminar	NO.	3	3



AFF	Affiliate	LCA	Life Cycle Assessment
APE	Asia Pro-Eco	LCI	Life Cycle Inventory
AOTS	The Association for Overseas Technical Scholarship	LIU	Linköping University, Sweden
ASD	Association Action Sustainable Development	MNCs	Multinational Companies
CfSD	Center for Sustainable Design	MOC	Ministry of Commerce
CITQ	Centre d'innovacio Tecnologia Quimica, Spain Chiang Mai University	MOE	Min. of Energy Ministry of Industry
CIVIO	Cleawe Technology	MBA	Mutual Recognition Agreement
CTAP	Cleaner Technology Advancement Program	MTEC	National Metal and Materials Technology Center
DEDE	Department Alternative Energy Development and Efficiency		National Economic & Social Development Board
DEP	Department of Export Promotion	OIE	Office of Industrial Economic
DS	Danish Standards Association	RoHS	Restriction of Hazardous Substances
ED	Eco Design Electrical and Electronic Equipment	RUC	Renmin University of China Standard and Industrial Research Institute of Malaysia
EEL	Electrical and Electronics Institute	SPE	Small Project Facility
EGAT	Electricity Generating Authority of Thailand	TC	Technical Committee
	ELCINA Electronic Industries Association of India	TEI	Thailand Environment Institute
ELV	End of Life Vehicles	TERI	The Energy and Resources Institute
EMAS	Eco-management & audit scheme	TGDN	Thai Green Design Network
EuP F.L	Energy using Product Fluorescent Lamp	TNCs TISI	Transnational Companies Thailand Industrial Std. Institute (Bureau)
FTI	Federation of Thai Industries	TUB	Technische Universität Berlin
Gov.	Government	TUBS	Technische Universität Braunschweig
GTZ	German Technical Cooperation	UNCTAD	United Nations Conference on Trade and Development
IEC	International Electrotechnical Commission	UNEP	United Nations Environmental Program
IPP	Integrated Product Policy	UNU EHS	United Nations University Institute for Environment and
	Institute of Small and Medium Enterprises Development er IZM Institut Zuverlassigkeit und Mikrointegration	WEEE	Human Security Waste from Electrical and Electronic Equipment
JETRO		WG2	Working Group 2
JICA	Japan International Cooperaton Agency	THOLE	Honding Group E
JVs	Joint Ventures		





Session IV: The Dialogue SCSC – ABAC and business







Overview Session IV: The Dialogue SCSC – ABAC and business

The fourth session was the dialogue between SCSC, ABAC and business, aimed at encouraging future cooperation on standardization and conformance in APEC economies, responding to the need and expectations of business in the region. This session was moderated by Mr Teo Nam Kuan, SCSC Vice Chair.

The presentations for this session were:

- Importance of the ABAC SCSC Dialogue: encouraging future cooperation on standardization and conformance in APEC economies according to the needs of business, Mr Augusto Mello, SCSC Chair.
- ABAC Standards Agenda APEC Food System, Mr Geoffrey Brennan, ABAC Australia, Australia.
- Benefits of accreditation and conformity assessment for business, Ms Karen Hitchiner, Standards Australia on behalf of Dr Helen Liddy, Asia Pacific Laboratory Accreditation Cooperation (APLAC).
- Report of ABAC initiative project on Critical Infrastructure and Support Systems Standardization, Ms Karen Hitchiner, Standards Australia, Australia.
- International Standardization for the Petroleum and Natural Gas Industry / Possible Cooperation of APEC Members With OGP/SC and ISO/TC-67, Mr Wilson Barbosa, International Association of Oil and Gas Producers/ Standards Committee.
- Chilean Standard of Energy Efficiency: bases for regulations and its impact in the national industry, Ms Claudia Cerda, Chilean Standards Body INN, Chile.
- The use of standards and its impact in the agribusiness sector: the Peruvian experience, Mr Augusto Mello, Peruvian Standards Body (INDECOPI), Peru.

Session IV provided an opportunity to:

- Have a better understanding of ABAC's perspectives on standards and their importance for business.
- To identify possible areas of future cooperation between SCSC and ABAC.

The recommendations in this session were:

- SCSC should take into account ABAC's priority areas to strengthen cooperation between SCSC and ABAC through inclusion in SCSC's future agenda.
- SCSC work jointly with ABAC to achieve the goals pursued by the APEC food system of facilitating trade of food products.
- SCSC members should consider whether it is now timely to include work on conformity assessment issues, given that substantial work has been done on standards related issues.

Speakers Session IV

In order of final agenda



1. Mr Augusto Mello, Chair, APEC Sub Committee on Standards and Conformance/ Technical Secretary of INDECOPI's Technical and Commercial Regulations Commission, Perú

Mr Mello is an economist. He is the Technical Secretary of INDECOPI's Technical and Commercial Regulations Commission, which is the Peruvian Standardization and Accreditation Body. He has represented Peru in international forums related to standardization, accreditation and technical barriers to trade. He supports the work of the Ministry of Foreign Trade in these areas for Free Trade Agreement negotiations. From 2000 to 2004 he was President of the MLA Committee of the Inter American Accreditation Cooperation (IAAC). He is currently Chair of APEC's Sub Committee on Standards and Conformance.

2. Mr Geoffrey Brennan, Executive Director, ABAC Australia

Mr Brennan has been in charge of the work on standards in ABAC. He is Managing Director of Gavin Anderson & Company in Canberra, an international communications company. Previously he was a senior executive in the Australian Department of Foreign Affairs and Trade and served as Minister overseas in the Australian Embassies of Tokyo and Washington.





3. Ms Karen Hitchiner, Manager for International Development, Standards Australia

Ms Hitchiner started with Standards Australia in the structures group with responsibility for facilitating the development of national and international standards in this area. Her involvement continued in the Asia Pacific by delivering seminars in a number of Asian Countries to promote the involvement and also delivering training courses. She was appointed to the joint position of manager for international development for Standards Australia and Standards New Zealand and has been actively involved in assisting them with their ISO, IEC, PASC and APEC activities over this period.

4. Mr Wilson Barbosa, International Association of Oil and Gas Producers/ Standards Committee (OGP/SC)

Mr Barbosa is a Chemical Engineer and holds Masters Degrees in Petroleum Processing and in Environmental Engineering. He participates in ISO/TC-67, representing the Brazilian Standards Association (ABNT). He also participates in the International Association of Oil and Gas Producers/Standards Committee (OGP/SC) as Vice-Chair, representing Petrobras.





5. Ms Claudia Cerda, Standardization Division, Chilean Standards Body

Ms Cerda is part of the professional staff at the Standard Division of the National Standardization Institute (INN). She holds a Degree on Acoustic Engineering from the Chilean Austral University. Mrs. Cerda is in charge of the Technical Secretariat of the COPANT Mirror Committee TC 152 Energy Efficiency. With the recent conformation of national Mirror Committee of the ISO/PC 242, she is also in charge of this Technical Secretary. She represent INN in PASC and PASC EC.

Importance of the ABAC - SCSC Dialogue: encouraging future cooperation on standardization and conformance in APEC economies according to the needs of business

Mr Augusto Mello, SCSC Chair

It is my pleasure to give a few words to open this Session 4 "The Dialogue between SCSC, ABAC and Business".

One of SCSC's main goals is trade facilitation, and working towards that goal necessarily means listening to business. From its early years, the SCSC has been looking for a close relationship with the business sector.

For their part, ABAC is focused on the practical impacts of standards and conformance on trade-related business activities in APEC, and on ensuring that efforts at enhanced harmonization and mutual recognition are directed in a way that will bring concrete outcomes.

One effective measure to encourage SCSC to gain awareness on the needs and expectations of industry has been the organization of a Dialogue with ABAC. These dialogues have taken place since 2004, every two years, in conjunction with SCSC's second plenary meeting. So this is our third dialogue session.

Some of the conclusions derived of the Dialogue with ABAC, are that:

- From ABAC's perspective, activities of SCSC are valued.
- From SCSC's point of view input received from ABAC is very important.
- The Dialogue encourages SCSC activities to be focused along with the needs of stakeholders.
- There is a need for enhancement of capacity building programs.
- The importance of further analysis and assessment of ABAC related SCSC activities.

I would like to mention a couple of successful cases of ABAC-SCSC cooperation.

A relevant output of the cooperation between ABAC and SCSC has been the development of a program on trade facilitation in Information Technology products, which includes topics such as trade facilitation, standards and regulatory reforms in the IT sector.

Also, cooperation with the business sector has taken place in relation to Small and Medium Enterprises. The main topic currently being developed and discussed is the reduction of Compliance Costs for SME's.

We could also mention the input of ABAC to the KPIs that the SCSC approved intersessionally in May, having received useful comments and suggestions from ABAC.

I am sure that the topics that have been discussed so far during this Conference, as well as the conclusions that will be reached in this important session will strengthen even more the cooperation between SCSC and ABAC and will serve as important input to the future work of SCSC.

Thank you very much.




Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/030

ABAC Standards agenda

Submitted by: ABAC Australia Geoffrey Brennan Executive Director

gbrennan@gavinanderson.com.au

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





Standards are critical in all sectors

- Standards increasingly affect all areas of economies:
 - Manufacturing and technological development
 - Management
 - Services such as financial, educational and health
 - Government
 - Security
 - Agriculture and food production
 - The environment



Standardisation across the Region is inhibited by:

- Varying stages of economic development and consequent resource constraints.
- Varying participation in international standards processes.
- Varying degrees of awareness of the contribution of standards by governments, industry and the public.



Survey Questions

- We asked 22 questions.
- Topics covered issues of:
 - Industry and government involvement
 - Funding
 - Barriers to alignment with international standards
 - Priority areas for international alignment
 - Assistance required to strengthen the organisational skills base
 - Extent of collaboration between national standards bodies
 - APEC assistance
 - Conformance assessment

Survey Results

- It is clear that significant differences exist between levels of standardisation.
 - Staffing of National Standards Bodies ranges from 2-250
 - The number of standards ranges from 41 to 25,654.
 - It is also clear that there is a desire to move toward
 - greater regional collaboration,
 - All economies answered yes when asked if they would like to see more opportunities for collaboration.
 - greater international harmonisation.
 - All but 2 economies advised that they have a target to align national standards to international standards.
 - The period of time anticipated for this target ranged between 2 and 5 years.

The Messages

- Some clear messages emerge:
- While there is interest in potential benefits of alignment with international standards as a concept, individual international standards and the processes for developing them, are often not seen as relevant or useful in this region, and economies are not confident in their participation in those processes.
- Advantages are seen in working cooperatively in international fora and in regional exchanges for training and information.

Forward Agenda

- Analysis of the survey results and the outcome of these discussions are aimed at:
 - Developing a program of capacity building to strengthen standards structures where necessary
 - Developing a program to raise awareness of the role and importance of standardisation to regional prosperity
 - Greater regional collaboration
 - Greater harmonisation with international standards
 - Identification of key areas that may be suitable for regional agreement for adoption of international standards.

The (International)Critical Infrastructure Security and Support Systems Project

- Many of you will be aware of the APEC project on security and emergency management standards.
- Importantly the catalyst for this unique and groundbreaking agreement was ABAC's work on standards.

Is this a template for future work?

- The question on my mind is can this project be a template for future work in APEC on standards?
- Can we identify other areas that do demand attention in the region and are conducive to this type of approach?

Next – convergence? Having had some success in moving the agenda forward on standards, does ABAC need to look more closely at convergence?

• Aim is to see if ABAC, recognising its unique role, can add value in addressing matters in convergence.

Next – supply chain issues

- We are looking at work in transport across the region
- Early stages but seeking to address adverse impact of regulatory matters on logistical & supply chain management
- Indication of areas in which we can be active for business

Enter KPIs

- The bottom line for ABAC is the need for our work to be of value to business.
- Otherwise we are unable to meet the mandate Leaders have set for our work.
- This is why ABAC has proposed the use of KPIs in the current TFAP II across 4 areas including SCSC.
- This is a new step. ABAC hopes it can continue to work closely with SCSC is taking into account our input on KPIs.

Cooperation with SCSC

- ABAC will continue to work with SCSC
- ABAC is proud of its contribution to standards across the region
- But we recognise the key role of SCSC in this work
- Look forward to future areas of assistance and support
- But please recognise that ABAC has a unique role in the APEC process and our work is meant to add value to matters relating to business that Leaders need to address

Second Trade Facilitation Action Plan (TFAP II)

Key Performance Indicators (KPIs) Suggested by Sub-Committee on Standards and

Conformance (SCSC)
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Areas	Actions in TFAP II	Suggested KPIs
Align APEC	a) Align with International Standards in agreed priority areas and provide updated	(i) Number of APEC economies that are
Economies'	information for inclusion in the VAP.	participating in Technical Committees
Domestic	b) Align regulations, rules and procedures, standards and codes affecting the acceptance	and/or activities in:
Standards with	of goods between economies and markets on the basis of international standards where	- ISO:
International	appropriate, e.g. CODEX, OIE, IPPC, ISO and IEC standards.	- IEC
Standards;	c) Implement WTO TBT Committee Decision on Principles for the Development of	-CODEX
Implement Good	International Standards, Guides and Recommendations and use language consistent with	
Practices for the	the WTO TBT Committee decision in trade agreements and national laws and regulations	(ii) Number of international standards
Development and	when referring to international standards.	covered by the VAP standards alignment
Implementation	d) Implement the Work Programme on Trade Facilitation in Information Technology	work as target standards.
of Technical	Products.	I SECTADATA
Regulations	e) Adopt Good Regulatory Practice through revising regulations to reflect the three	(iii) Number of APEC economies that ar
ala a a c	documents endorsed by the SCSC: Principles and Features of Good Regulatory Practice;	participating in the VAP activity.
	APEC Information Notes on Good Practice for Technical Regulation; and Guidelines for	(iv) Number of APEC economies that
ai u ar ar a	the Preparation, Adoption and Review of Technical Regulations.	
	f) Align domestic regulations for medical devices with the principles of the Global	have achieved 100% alignment of their
	Harmonization Task Force (GHTF). Progressively adopt and implement GHTF guidance	standards with international standards in
21.72 22 21 3	documents.	each priority area of the VAP activity.
11 11 12 1. S	g) Align.domestic hazard classification and labelling schemes for chemicals to the	(v) Number of APEC economies that are
and to a s	Globally Harmonized System (GHS)	participating in:
	h) Sign on to the global MRA on measurement standards coordinated by the International	-International and regional comparisons
	Committee of Weights and Measures (CIPM).	of measurement standards organized by
an the sale at it.	i) Participate in international and regional comparisons of measurement standards	CIPM and/or SIM (Interamerican
11 11 12 1. 1	organized by the International Committee on Weights and Measures (CIPM) and the Asia	Metrology System).
AR NE 10 - AC N	Pacific Metrology Programme (APMP)	-PASC (for national standards bodies)
11 11 11 1. t	j) Promote active participation by the national standards body in regional fora, such as the	-PASC (for national standards bodies)
	Pacific Area Standards Congress (PASC).	



Second Trade Facilitation Action Plan (TFAP II) Key Performance Indicators (KPIs) Suggested by Sub-Committee on Standards and Conformance (SCSC)

Areas	Actions in TFAP II	Suggested KPIs	
Align APEC	a) Align with International Standards in agreed priority areas and provide updated	(i) INCREASE IN Number of APEC	
Economies'	information for inclusion in the VAP.	economies that are participating in	
Domestic	b) Align regulations, rules and procedures, standards and codes affecting the acceptance	Technical Committees and/or activities	
Standards with	of goods between economies and markets on the basis of international standards where	ini ta la la la la la la lattat di	
International	appropriate, e.g. CODEX, OIE, IPPC, ISO and IEC standards.	- ISO	
Standards;	c) Implement WTO TBT Committee Decision on Principles for the Development of	- IEC	
Implement Good	International Standards, Guides and Recommendations and use language consistent with	-CODEX	
Practices for the	the WTO TBT Committee decision in trade agreements and national laws and regulations		
Development and	when referring to international standards.	(ii) Number of international standards	
Implementation of	d) Implement the Work Programme on Trade Facilitation in Information Technology	covered by the VAP standards alignment	
Technical	Products.	work as target standards.	
Regulations	e) Adopt Good Regulatory Practice through revising regulations to reflect the three	l na na na la na lan an an an an an	
12 12 12 12 13 13 1	documents endorsed by the SCSC: Principles and Features of Good Regulatory Practice;	(iii) number of APEC economies that ar	
	APEC Information Notes on Good Practice for Technical Regulation; and Guidelines for	participating in the VAP activity.	
	the Preparation, Adoption and Review of Technical Regulations.	(iv) Number of APEC economies that	
ta la la la la la	f) Align domestic regulations for medical devices with the principles of the Global	have achieved 100% alignment of their	
	Harmonization Task Force (GHTF). Progressively adopt and implement GHTF guidance	standards with international standards in	
12 12 12 12 13 13 13	documents.	each priority area of the VAP activity.	
FR FR 18 8 81 1	g) Align domestic hazard classification and labelling schemes for chemicals to the	each phonty area of the VAP activity.	
LY IN IN N NI I	Globally Harmonized System (GHS)	(v) Number of APEC economies that are	
	h) Sign on to the global MRA on measurement standards coordinated by the International	participating in:	
	Committee of Weights and Measures (CIPM).	- International and regional comparisons	
LX 1X 1X X X1 3	i) Participate in international and regional comparisons of measurement standards	of measurement standards organized by	
ra da la la la la	organized by the International Committee on Weights and Measures (CIPM) and the	CIPM and/or SIM (Interamerican	
12 12 12 2 21 1	Asia Pacific Metrology Programme (APMP).	Metrology System).	
	j) Promote active participation by the national standards body in regional fora, such as	-PASC (for national standards bodies)	
	the Pacific Area Standards Congress (PASC).	(in any in the second s	

APEC Food System (AFS)

APEC Food Security

- Set out in the 1998 and 1999 ABAC Report to APEC Leaders, the APEC Food Security (AFS) visualizes a regional food system built on the guiding principles of rural development and capacity building, technology development and sharing, and trade and investment liberalization in food products.
- As APEC's main vehicle for addressing food security issues, the AFS seeks to create an environment based on a vision of a regional food system where:
 - * consumers have access to the food they desire at affordable prices;
 - * the productivity of the food sector is enhanced through region-wide availability of food-related technological advances and through efficient resource use;
 - * supply security is improved through cooperation and interdependence;
 - * the vitality of rural communities is enhanced through improved infrastructural development and through access to viable non-farm employment and industry.
- The AFS includes specific programs to pursue the vision.

Responding to Food Supply and Price Issues

- There is widespread concern among regional business regarding the impact of shortages in the supply of basic food products and subsequent marked increases in prices.
- These problems are due to a number of factors, notably increased global demand for food products, as well as energy related challenges including oil price rises.
- In some economies, defensive measures are being taken, including imposition of export restrictions to retain supplies for domestic markets, which cause adverse consequences for other economies.
- ABAC does not support the use of embargoes and other export restrictions as a means of addressing perceived food shortages.
- In addition to avoiding such unhelpful short term measures, it is essential that the underlying long-term problems be addressed.

Tackling challenges of today

- ABAC believes the APEC Food System (AFS) has direct relevance to the situations faced today.
- We recognize and applaud the fact that much work has been done in many economies to try and implement the AFSS.
- Nevertheless, we feel that much more can be done within APEC to fully embrace the AFS.
- ABAC stands ready to work closely with APEC on this issue and plans to put special emphasis on the AFS and food issues from now through the 2009 Leaders' Meeting.





Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/032

Benefits of Accreditation and Conformity Assessment for Business

Purpose: Information Submitted by: APLAC Secretary Helen Liddy helen.liddy@nata.org.au

Presented by: Karen Hitchiner, Australia karen.hitchiner@standard.org.au

> APLAC : www.aplac.org PAC: www.apec-pac.org

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



Overview

- Types of conformity assessment
- Business & trade rely on conformity assessment
- Competence of CABs
- Accreditation & hierarchy of criteria
- APLAC MRA and PAC MLA
- APLAC MRA, PAC MLA & APEC

Conformity Assessment

Demonstration that specified requirements relating to a product, process, system, person or body are fulfilled. ISO/IEC 17000, clause 2.1

Types of Conformity Assessment

- Testing
- Calibration
- Inspection
- Certification

Business & Trade Rely on Conformity Assessment

- Testing (e.g. food; manufactured articles; environmental protection; etc)
- Calibration (e.g. weighing and dispensing machines)
- Inspection (e.g. pipelines; cranes; shipments of goods)
- Certification (e.g. food safety; product; EMS)

International Standards

- Testing Laboratories: ISO/IEC 17025; ISO 15189
- Calibration Laboratories: ISO/IEC 17025
- Inspection Bodies: ISO/IEC 17020
- Certification: ISO/IEC 22000; ISO/IEC Guide 65; ISO/IEC 14001; etc

Competence of CABs

- Documented quality system
 - Management review & internal audits
 - Contract review
 - Purchasing
 - Complaints
 - Control of nonconforming product
 - Corrective action; improvement
 - Records

Competence of CABs

- Relevant technical requirements
 - Personnel
 - Equipment
 - Measurement traceability
 - Procedures
 - Quality control/quality assurance
 - Reports/certificates

Competence of CABs

- Demonstrated through accreditation by third party organisation (accreditation body)
- Accreditation body compliant with ISO/IEC 17011
- APLAC MRA; PAC MLA

Accreditation

- Assessment of CAB performance against international criteria (ISO/IEC 17025; ISO/IEC 17020; ISO/IEC Guide 65; etc)
- Means of determining competence of CABs to perform specific measurements, calibrations, tests, inspections or certifications
- · Formal recognition of that competence

Accreditation

- 3rd party attestation related to a conformity assessment body conveying formal demonstration of its competence to carry out specific conformity assessment tasks (ISO/IEC 17000, clause 5.6)
- Key phrases
 - competence
 - specific tasks

Accreditation

- Demonstrated competence
 - Specific tests
 - Defined measurements
 - Types of calibrations
 - Particular testing techniques
 - Specific types of inspections
 - Specific types of certifications

Accreditation

- Technical competence
- Integrity
- Transparency (as defined by WTO TBT)
- Fairness
- Scope of accreditation
 - products; types of test parameters types of inspections; matrices
 - measurement techniques, range, accuracy
 - test specification; test method





APLAC MRA

- Single multilateral MRA for testing and calibration, 1997
- Extended to include inspection, 2003
- ISO 15189 separated out, 2007
- Extended to include RMP, 2007
- Replaced network of bilateral MRAs
- Regional component of global ILAC Arrangement, November 2000 (test and calibration only)

APLAC MRA

- Facility accredited by one MRA partner has equivalent competence to facility accredited by other partners
- Each signatory acknowledges equivalence of all other signatories
- Acceptance of test, calibration and inspection reports and reference material certificates amongst all signatories' economies
 - demands mutual confidence in technical competence
- Confidence cannot be legislated

APLAC MRA Signatories

- NATA
- CAEAL
- SCC
- CNAL
- HKAS
- NABL
- KAN
- JAB

- IA Japan
- VLAC
- KOLAS
- Standards Malaysia
- ema
- IANZ
- SAC

APLAC MRA Signatories ctd TAF LAB LAS IAS IAS NVLAP TLAS PJLA BoA ACLASS JAS-ANZ



PAC MLA

- QMS signed initially in 1998
- EMS signed initially in 2003
- Product signed initially in 2004
- Regional component of global IAF MLA, signed in 1998 for QMS; in 2004 for EMS and product

PAC MLA

- Certification bodies accredited by PAC MLA signatories are recognised as equivalent
- Users of services can have same confidence in organisation accredited by one PAC MLA signatory as in those accredited by other PAC MLA signatories

PAC MLA Signatories

• SCC

- CNAS
- HKAS
- NABCB
- KAN
- JAB
- KAB
- KAS
- Standards Malaysia

- ema
- PAO
- SAC
- TAF
- NAC
- ANSI
- BoA
- JAS-ANZ

MRA & MLA - Assisting Trade

- APLAC MRA and PAC MLA enhance acceptance of reports and certificates amongst signatory economies
- APLAC MRA and PAC MLA signatories recognise equivalence of each others' accredited facilities
- APLAC MRA and PAC MLA are international recognitions for accredited CABs

MRA & MLA- Assisting Trade

- APLAC MRA and PAC MLA reduce or eliminate need for re-testing, re-inspection or re-certification of imported goods
- Entry into global ILAC Arrangement (for testing and calibration) and global IAF MLA (for certification)

MRA & Regulators

- Laboratories and inspection bodies accredited for compliance with domestic & foreign regulations
- MRA evaluations assure competence to assess to domestic & foreign regulations
- APLAC MRA and PAC MLA underpin APEC G2G MRAs (TEL and EE MRAs)

Summary

- Business & trade rely on CABs
- Accreditation
- APLAC MRA and PAC MLA
- Support for APEC activities



Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/033

Report of ABAC Initiative Project On Critical Infrastructure and Support Systems Standardization

Purpose: Information Submitted by: Australia Karen Hitchiner Manager International Development Standards Australia

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008













		Project Aims
	1.	Identify and detail some of the issues, barriers and solutions related to protecting critical infrastructure (power supply, water, telecommunications, financial services sectors)
	2.	Identify user perceptions of the importance of standards related to securing critical infrastructure
	3.	Identify and prioritise the standards required by the owners and operators of critical infrastructure
	4.	Identify the gaps between existing standards and the needs of owners and operators of critical infrastructure
STANDARDS	5.	Make recommendations on how the gaps in standards may be addressed
	6.	Develop a blue-print for the development of a standards framework











Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/034

International Standardization for the Petroleum & Natural Gas Industry/Possible Cooperation of APEC Members with OGP/SC and ISO/TC-67

> Purpose: Information Submitted by: OGP Standards Committee Wilson Barbosa De Oliveira OGP/SC Vice Chair

> > wbarbosa@petrobras.com.br

7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008



What is OGP?

- Formed in 1974 to develop effective communication between the upstream industry and international regulators
- Members
 - National & regional associations
 - Publicly traded, private & state oil & gas companies
 - Major service companies
- Members produce more than half of the world's oil and about one third of its gas
- Offices in London and Brussels









Global experience

- OGP has access to a wealth of technical knowledge and experience with its members operating around the world in many different terrains.
- OGP collate and distil this valuable knowledge into a range of reports and guidelines. Some for general use while others are restricted to OGP members.

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UGP SI	anuars cu		e membership	
Momboro 1)	Compony	Country	Other functions	
Members 1)	Company	Country	Other functions	
Wilson Barbosa de Oliveira	Petrobras	Brazil	OGP/SC Vice-Chair	
Anatoly Baryshnikov	Eni	Italy	CEN/TC12 AH8 Chair	
Gail Baxter	Marathon	USA		
Felicia Decusara	Petrom	Romania		
Alf Reidar Johansen	OGP/SC	Norway	OGP/SC Manager	
Joachim G. Koenig	OMV	Austria		
Tom Kelleher	Petro-Canada	Canada		
Alain Loppinet	CEN	France	CEN/TC12 Chair	
Martin Maeso	Energy Institute	UK		
David Miller	API	USA	API Std. Progr. Dir.	
Saif S Al Naimi 3)	Qatar Petroleum	Qatar		
Abdullah Humaid ⁴⁾	Saudi Aramco	Saudi Arabia		
Manuel Paga Castellanos	RepsolYPF	Spain		
Terry Qin ²⁾	CPSC	China		
Neil Reeve	Shell	Netherlands	IFAN President, OGP/SC Chair,	
			ISO/TC67 Interin Chair	
Daniel Rioche	Total	France		
Trevor Vyze	ISO	Switzerland	Technical Group Mgr.	
Ross Smith	BP	USA		
Mike Swidzinski	ConocoPhillips	UK		
Richard Torgersen	ExxonMobil	USA		
Mirmohamad Rouzbeh	Petropars	Iran		

Notes: 1) Plus corresponding members from: BG, Chevron, Mærsk and Premier. Alternates: 2) Du Delin & Xiaohong Chen, CPSC 3) Muayad Ajjawi, 4) Fathi Abughaban


- Historically, the American organisations API, ANSI, ASME, ASTM & AWS etc. developed the standards frequently used by the upstream world wide oil & gas industry.
- North Sea operating companies developed lots of in-house and project specifications to fit their needs not covered by the American standards.
- Growing EU interest for developing European upstream standards emerged in view of EU's "new approach" for technical standards to support the general safety requirements in the EU directives.
 - A change in developing oil & gas standards & specifications was required







OGP Position on Standards

The OGP has been a catalyst for change in the industry's approach to standards and strongly supports the internationalisation of key standards used by the Petroleum and Natural Gas Industries. OGP 's position on standards is:

- development and use of ISO and IEC standards should be promoted
- development of standards should be based on a consensus of need
- "users" should be represented on standards work groups
- duplication of effort should be avoided
- standards should be simple and fit for purpose
- International standards should be used without modification wherever possible
- company specifications should be minimised and written, where possible, as functional requirements.

The adoption of this approach is expected to minimise barriers to trade, enable more efficient worldwide operations, and improve the technical integrity of equipment, materials, and offshore structures used by the Petroleum and Natural Gas Industries. **OGP Report 381, April 2007**

OGP Standards CommitteeBusiness Plan 2008

- · Support development of ISO/IEC standards
- · Progress development of OGP member identified standards
- · Support work of Instrument & Materials groups
- Produce 2008 Standards Bulletin
- Hold technical workshops
- · Better understanding of Regulators` use of standards
- · Identify and address barriers to adoption of standards
- Benchmark OGP members work with the production and use of standards.

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OGP/SC Business Plan 2008 cont.

- Key publications:
 - Contribute to publication of 19 targeted ISO/TC67 standards
 - Report on regulatory use of international standards
 - 2008 Standards Bulletin
- 2008 Workshops:
 - Provisionally planned for Western Europe & Beijing
 - Potential workshop on to discuss harmonisation and development of coating standards
- Proposed budget:
 - Roll Technical editing JIP into OGP mainstream
 - £35.000 for consultancy services





ISO Organization

- · Consensus-based
- Market driven
- Technically current
- Internationally expertise
- Voluntary, not mandated
- Meet requirements of WTO Technical Barriers to Trade

ISO Organizationcont.

- "One country, one vote"
- Equal footing for all countries
- Right to join any technical committee or policy committee of commercial/technical interest
- Voting rights on all standards
- Access to global community of technical experts





ISO/TC-67 – Materials, equipments and offshore structures for petroleum, petrochemical and natural gas industries

- Secretariat API on behalf of ANSI
- Created 1947, and reactivated 1987
- Scope: Standardization of the materials, equipment and offshore structures used in drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.
- Excluded: aspects of offshore structures subject to IMO regulations (TC8 – "Ships and Marine Technology")
- Participating countries 28
- Observing countries 28
- Standards published 135

ISO/TC-67

Mission

To create value-added standards for the oil and natural gas Industries.

Vision

Global standards used locally worldwide.



Degrators Service/supply companies Manufacturers Government regulators Consultants Academics Experts are nominated by their national standards body to participate in work effort

ISO/TC-67 Members

- Participating Members = 28
 Argentina, Brazil, Canada, China, Denmark, Finland, France, Germany, Indonesia, Italy, Japan, Kazakhstan, Korea (Republic of), Mexico, Netherlands, Nigeria, Norway, Oman, Portugal, Qatar, Romania, Russian Federation, South Africa, Spain, Ukraine, United Kingdom, United States, Venezuela
- Observing Members = 28
 Australia, Austria, Azerbaijan, Belgium, Bulgaria, Colombia, Croatia, Cuba, Czech Republic, Ecuador, Egypt, Hong Kong, Hungary, Iran (Islamic Republic), Ireland, Malaysia, Moldova (Republic of), Mongolia, Poland, Saudi Arabia, Serbia, Singapore, Slovakia, Sweden, Switzerland, Thailand, Trinidad and Tobago, Viet Nam







ISO/TC-67 Management Committee Representative from each "P" country Coordinates TC67 activities with ISO CS Seeks resources for SC – technical experts, funds, etc. Publishes the Business Plan (requirement of ISO Technical Management Board) Maintains N435-Policies and Procedures, N654-Management System, and N731-Management Plan Accepts TC publication targets, and works toward guiding documents through DIS and FDIS







How to co-operate and participate
 OGP: Open to national and regional associations, publicly traded, private and state oil & gas companies, major service/supply companies OGP/SC: Open to the OGP member companies OGP/SC Meetings: Twice a year (usually) in any country involved or other by invitation ISO/TC-67: Open to operators, service/supply companies, manufacturers, government regulators, consultants, academics ISO/TC-67 Plenary: Annually in any ISO/TC-67 rotates among "P" member countries 2008 - China, Beijing 2009 - Canada, Calgary or Ottawa (tentative) ISO/TC-67 SC and WG: Any date, any ISO/TC-67 rotates among member countries – usually in SC or WG member countries Workshops, Seminars and Conferences: Usually during the ISO/TC-67 and/or OGP/SC meetings In conjunction with relevant events – local, national, regional, international By invitation Other suggested arrangements

Key notes	
Join the OGP, ISO and IEC global efforts in Inte	ernational Standards development
Capture the value added by making use of the & gas industry	new ISO/IEC Standards for the oil
Key notes	
Neil Reeve – OGP/SC Chair and ISO/TC-67 In E-mail <neil.reeve@shell.com></neil.reeve@shell.com>	terin Chair
Wilson Brabosa de Oliveira – OGP/SC Vice-Ch Tel. +55-21-3229-0445 E-mail <wbarbosa@petrobras.com.br></wbarbosa@petrobras.com.br>	nair
Alf Reidar Johansen – OGP/SC Manager E-mail <alf.reidar.johansen@ogp.org.u< td=""><td>uk></td></alf.reidar.johansen@ogp.org.u<>	uk>
Informationa	I
www.iso.org www.iec.ch www.isotc.iso.org	www.tc67.net www.ogp.org.uk









Asia-Pacific Economic Cooperation

2008/SOM3/SCSC/CONF/035

Chilean Standard of Energy Efficiency: Bases for Regulations and its Impact in the National Industry

Purpose: Information Submitted by: Chilean Standards Body --INN Claudia Cerda Standardization Division

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7th Conference on Standards and Conformance Sub-Committee on Standards & Conformance Cusco, Peru 10-11 August 2008





and therma	trice is based on al generation mainly SIC, SING, Magallan	/. It is constituted
Sistema 2007	Potencia Instalada (MV	W)Potencia Instalada (%
SIC	9118	70.97
SING	3602	28.04
Magallanes	80	0.62
Aysen	48	0.37
Total	12847	100.00
		■ SIC ■ SING □ Magailanes 1% □ Aysen



National Background Since 2004-2005 the system presents vulnerability due to climatic factor (rains for reservoirs) and limitations of shipment of NG from Argentina Energy policies of Government begins to be integral based on 3 columns: Supply insurance Energy matrice diversification Focus in the save and energy efficiency

National Background

- In 2005 the Energy Efficiency Country Program (PPEE) was created like a management instance of public-private capacities to work in energy efficiency. Point of agreement: Operative committee.
- To begin: same year they decided to implement the domestic appliances energy efficiency labeling of greater consumption in houses, in this case: cooling and lamps
- In meetings of Operative Committee of the PPEE, INN detects the need to count with Chilean Standards (technical standards, involve the stakeholders, of consensus, voluntary first, with the capacity to be obligatory)
- There is one possibility to solve the standards lack: through INNOVA CORFO Project (CORFO is the agency of Government that promotes the national production)

National Background

- From the awarding of the Project INNOVA CORFO by INN, begins a **joint venture** with the Associates to the same one, especially with the Secretary of Electricity and Fuel, SEC, agency of regulating Government in matter of security and quality of electric and fuel domestic appliances
- The decisions about what standards made in the framework of the Project were take with the Associates specifically among INN, SEC and the PPEE as a guest
- By this way, we achieved a joint hard work where the **National Standardization Body** made the technical standards of test methods and labeling (Chilean Standards) and the **Regulatory Agency of Government** issued the regulations (namely Protocols).

Standard Division INN

- Elaborate of Chilean Standards (NCh)
 - product requirements (woods/service)
 - test methodologies
 - terminologies
 - labeling
- National Technical Consensus Committees.
- Chile's representative for ISO, COPANT and PASC
- National Mirror Committees (Social Responsibility, Energy Management of ISO; Energy Efficiency of Copant)
- With the execution of **Public-Private Projects**, the joint-venture between the companies, government and INN is reached for the development of the Chilean Standards



Energy Efficiency Chilean Standards
 Contribute of Associates: valued in HP Year 2006: 22 standards 9 standards of domestic electric appliances
6 standards of sustainable construction7 standards on industry
 Year 2007-2008: 30 standards 2 standards of domestic electric appliances 5 standards of lighting 3 standards of industry
 8 standards of solar panels 12 standards of sustainable construction



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Energy Efficiency Ch	ilean Standar	ds: Cooling
 NCh3000.Of2006 Energy eff freezers of domestic use - Cl 		
Agreement of Committee: to label efficiency classes	maintain the inform	nation and European
Test methods from internatio	nal standard ISO 15	5502
 Chilean standard is included obligatory from 	in the SEC Protoco	ol, which begin to be
Appliances	For fabricants	For commerce
Cooling-freezers, 2 doc	ors 16-07-2007	01-01-2008
Cooling, 1 door	16-10-2007	31-01-2008
Freezer	14-01-2008	14-02-2008

SEC Protocol Protocol Protocol that NRMAS HS Specifies Normation Normation Specifies Output to the second method on		Eliquetado de Eliciencia para Refrigeradores, Congeladoreis y Regrigeradores-Congeladores de acuerdo al alcance y campo de aplicación de la Norma ISO 150/02/2005 II <u>ANÁLISIS Y/O ENSAYOS</u> TABLA A <u>Nº Denominación Norma Clausula Notas</u> 1 Casificación ISO 1550/2006 4 2 Determinado de valumenes ISO 1550/2006 8 3 Condornes generales de reago 180 1550/2006 8 4 Enrayo de las Impensanas de all'orcenamiento
	Protocol that specifies	PE Nº 5/17/2 :: FECH4: 02:10:2006 PRODUCTO :: Refrigeradores, congeladoresy, congeladoresy, infigeradores, congeladoresy, infigeradores, congeladoresy, infigeradores, congeladoresy, infigeradores, congeladoresy, infigeradores, infigeradores, congeladoresy, infigeradores, congeladores, infigeradores, infige









	DEPARTAMENTO DE NORMAS Y ESTUDIOS
	PROTOCOLO. ANALISIS Y/O ENSAYOS EFICIENCIA ENERGETICA DE PRODUCTOS ELECTRICO
	PE Nº 5/01/2 : FECHA: 20.10.2008
	PRODUCTO : Lámparas incadescentes de filamento de tungsteno para illuminación general.
SEC	NORMAS : IEC 6004/2005: Lamparas de filamentos de ungatom para uso doméstico y alumbrado general Regulatos de desempeño.
Protocol that	NCh 3010 Of. 2006: Eficiencia energética incandescentes de uso domésico y similares - clasificación y elopuetado.
specifies	FUENTE LEGAL : Decreto № 298 de 2005 y № 399 de 1985, y sus modificaciones del Ministerio de Economía, Fomento y Recontrucción.
-	CAPITULO
NCh3010	 ALCANCE Y CAMPO DE APLICACIÓN Expression de la providencia d
	II ANÁLISIS Y/O ENSAYOS
	TABLA A
	Nº Denominación Norma Clausula
	1 Valores y tolerancias de las IFE 60064/2005 3.4 características iniciales
	2 Requisitos del ensayo de vida IEC6064/2005 3.6 3 Eficiencia Energetica NCF 3010 Of 2006 Todas
	Clasificación y etiquetado
	III SISTEMAS DE CERTIFICACIÓN V ENSAVO DE TIPO SEGUIDO DEL CONTROL REGULAR DE LOS PRODUCTOS (SISTEMA C)

Chile	an Standards in Er	nergy Effici	ency: Lamps
•	NCh3020.Of2006 Energy compact fluorescent lamps of labeling		
•	Agreement of Committee: European label efficiency cla		e information and
•	Test method from Internation	al Standard IEC	
•	Chilean standard is included obligatory from	l in SEC Protocol,	, which begin to be
	Appliance	Fabricant	Commerce
	Fluorescent lamp with incorporate ballast	30/06/2007 ^۱	31/10/2007
	Single-capped fluorescent lamps	31/03/2009	31/07/2009
	Double-capped	31/03/2009	31/07/2009











SEC Projects Protocol that specifies NCh3086	<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>
	PROTOCOL: O E EPICERICIA PRODUCTO E LECTRICO PE Nº 1912 Pagina 1 de 4



	DEPARTAMENTO TECNICO DE PRODUCTOS
	PROTOCOLO ANÁLISIS Y/O ENSAYOS DE EFICIENCIA ENERGÉTICA DE PRODUCTO ELECTRICO
SEC	PE N° 01/18/2 : 09 de Julio de 2008 PRODUCTO : Homo de cocción por microonda
Protocol	NORMAS : HOMO de cocisión por microomas NORMAS : IEC 62301 (2005): Artefa eléctricos de uso doméstic Médición de potencia del modi espera.
Projects that	NCh 3107 Of.2008: Eficie energeitica en modo en espe Clasificación y Esiguetado. FUENTE LEGAL : Ley Nº 18.410
specifies	RESOLUCIÓN EXENTA : RE I ^o xx de fecha xx.xx.2008.
NCh3107	 ALCANCEY Y CAMPO DE APLICACIÓN El presente protoción establere el procedimiento de restificación de Desempt Elipadelso de fácilicació Entregistes en moito en espera de los Normas de ococión inticipacións de usua demiéstica y que son ecclonados a través de un panel de co digitar.
	II ANÁLISIS Y/O ENSAYOS
	TABLA A
	1 Condiciones generales para IEC 62301 4
	Mediciones Energética en miodo en espera - Eléguetado NCh 3107 Of.2008 Todas
	Nota: (1) Los Homos de cocción por microondas serán enseyados a 220V~ y Si nominales.

EE Consultant Register	
	Impact in the industry because it permits that consultant register made energy audit in order to implement solutions if neccesary to achieve saves estimated
	November 2006, claimed by PPEE, management by INN
	Goal: to qualificate consultors to supply the CORFO Preinvesment Program in Energy Efficiency
	 CORFO Preinvesment Program in Energy Efficiency confinancing specialist consulting that containing ✓ Energy Efficiency audit ✓ Design of implementing of solutions plan ✓ To elaborate a investment project to present to a financing system
	CORFO 70%, roof of 12.000 USD , for enterprise which sales are below or equal to 40.140.363 USD

New challenges for INN in energy

- With the conformation of the Committee ISO/PC 242 *Energy management*, INN called to the stakeholders to conform the Committee National Mirror, which was recorded like P member by ISO
- In despite of that Chile counts with the chilean standard NCh3045.Of2007 Guide to determine energy consumption measurement conditions, this constitutes only a guidelines for consider, which results can't be guaranteed
- The Committee Mirror is composed by stakeholders as energy users companies, competent authorities in energy and environment, Universities, fabricants associations, certification bodies



Asia-Pacific Economic Cooperation

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The Use of Standards and its impact in the Agribusiness Sector: The Peruvian Experience

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Main Products (US\$ Million)					
Position	Products	Volume 1000 TM	Valor Mil US\$ 2,185	Particip. Valor FOB	Particip. acumulada
1	Green coffee	174	427	19.5%	
• 2	Fresh Asparagus	96	236	19.5%	00.00/
• 3	1 0	59	236	7.1%	30.3%
• 3 4	Canned Asparagus Evaporated Milk			3.0%	37.5%
		51	65	0.070	40.4%
5	Artichoke	29	64	2.9%	43.4%
6	Fresh mangoes	82	63	2.9%	46.3%
7	Paprika chili	23	56	2.6%	48.9%
8	Wood	40	55	2.5%	51.4%
9	Fresh grapes	26	55	2.5%	53.9%
10	Avocados	38	47	2.2%	56.0%
11	Animal feed for preparation	73	45	2.1%	58.1%
12	Fine Fiber	3	33	1.5%	59.6%
13	Bananas	65	31	1.4%	61.1%
14	Piquillopepper	17	31	1.4%	62.5%
• 15	Frozen Asparagus	12	30	1.4%	63.9%
	Subtotal		1,396	63.9%	





Asparagus: Key Factors of Change and Success Trade – Production Associations Investment and private innovation (logistics, new product presentations and packaging, others) Use of modern technology Standards: Development and implementation Food safety and quality assurance Strategic Alliances between public and private sectors Climate conditions: year round production















































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The Venue







Our cosponsors



Our speakers





Photo Gallery



Our speakers













At the conference





446

At the conference













Welcome Cocktail





Photo Gallery

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Welcome Cocktail

















Welcome Cocktail







Sharing time









Photo Gallery

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Sharing time











450



Sharing time









Photo Gallery

Organizing team

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Thank you to all who joined us at the 7th Conference on Standards and conformance!!!!