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# Specialist Regional Bodies (SRB) Strategic Plan - A Strategic Plan for Technical Infrastructure Development in Support of Trade Facilitation for and in APEC Economies

Purpose: Information Submitted by: SRB



First Sub-Committee on Standards and Conformance Meeting Singapore 24-25 February 2008











# **SRB STRATEGIC PLAN**

# A STRATEGIC PLAN FOR TECHNICAL INFRASTRUCTURE DEVELOPMENT IN SUPPORT OF TRADE FACILITATION FOR AND IN APEC ECONOMIES

Developed by the APEC Specialist Regional Bodies

**Updated February 2009** 

# SRB Strategic Plan: A Strategic Plan for Technical Infrastructure Development In Support of Trade Facilitation for and in APEC Economies

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## **EXECUTIVE SUMMARY**

A key objective of the APEC Specialist Regional Bodies (SRBs) is to work with the Asia Pacific Economic Cooperation (APEC) Sub-Committee on Standards and Conformance (SCSC) to facilitate the development and implementation of standards and conformance infrastructures in each APEC member economy. The SRB final objective is a standards and conformance infrastructure that simultaneously addresses APEC goals and also meets the needs of their member economies.

The SRBs emphasise that the objectives of the plan will be more effectively realised through the active support of the APEC SCSC. In particular the APEC SCSC should encourage regulators in APEC economies to see the value of a strong standards and conformance infrastructure in their economies, and for national infrastructure to be linked within the region via the SRBs. Further, the APEC SCSC should encourage regulators to use the existing SRB infrastructure as a means to achieve good regulatory practice and minimise barriers to trade.

Industry should also be encouraged to use the standards and conformance infrastructure. Engagement by APEC SCSC with the APEC Business Advisory Council (ABAC) is encouraged and the SRBs have begun a dialogue with the ABAC to better understand industry needs in the region.

This paper summarizes the activities undertaken by the APEC Specialist Regional Bodies (SRBs) in recent years and outlines some projects and activities planned for the next five years.

### 1 BACKGROUND

The APEC SCSC has been instrumental in bringing together the five APEC Specialist Regional Bodies (SRBs):

- Asia Pacific Laboratory Accreditation Cooperation (APLAC),
- Asia Pacific Legal Metrology Forum (APLMF),
- Asia-Pacific Metrology Programme (APMP)
- o Pacific Accreditation Cooperation (PAC), and
- Pacific Area Standards Congress (PASC)

to provide a coordinated approach to standards and conformance infrastructure development in the region that will support business development and reduce technical barriers to trade. These organizations came into existence to promote regional cooperation linked to global systems in the areas of standards and conformance.

The SRBs developed this discussion paper in Sydney, Australia, in January 2007 for review by the APEC SCSC and the memberships of the SRBs. It was endorsed by the ABAC at its May 2007 meeting. It was subsequently endorsed by the SCSC at its June 2007 meeting in Cairns, Australia. The SRBs have since annually updated the paper and shared it with the APEC SCSC. The paper summarizes activities undertaken in the previous five years in support of APEC's achievement of the Bogor goals in relation to standards and conformance, and provides a rolling five year strategic plan (hereafter called the SRB Strategic Plan) as a continuation of that support.

The SRB Strategic Plan responds to key objectives of APEC, outlined in key statements. These include

- 1. The Bogor goal of free and open trade and investment in the Asia Pacific region by 2010 for developed economies and by 2020 for developing economies and, in particular, uses as its basis the vision statement issued by the APEC leaders in Blake Island, Seattle, USA in November 1993.
- 2. The Busan Roadmap issued by the APEC leaders in November 2005 that includes:
  - a. support for the multilateral trading system
  - b. strengthening collective and individual actions
  - c. promotion of high quality regional trade agreements (RTAs) and free trade agreements (FTAs)
  - d. a strategic approach to capacity building

The SRBs are also aware of the APEC objective to reduce business costs through the development of a trade facilitation action plan. The SRBs consider the program outlined in **Annex 1** to this SRB Strategic Plan will assist in achieving this important objective.

The SRB Strategic Plan includes a series of actions specific to the standards and conformance infrastructure that are being adopted by the SRBs as a means to assist APEC in achieving the Bogor Goals.

In addition the SRBs will continue to undertake specific activities (independently of APEC SCSC), that best meet the needs of their broader constituencies but that, nevertheless, support the aims and objectives of APEC SCSC.

# 2 STANDARDS AND CONFORMANCE INFRASTRUCTURE

The APEC standards and conformance infrastructure relies on the various components of that infrastructure. These components are largely interdependent. Through this infrastructure, the SRBs deliver services to support the four objectives set for the standards and conformance infrastructure in the Osaka Action Agenda by:

- ensuring the transparency of the standards and conformity assessment of APEC economies
- aligning APEC economies' mandatory and voluntary standards with international standards
- achieving among APEC economies mutual recognition of conformity assessment activities in the regulated and voluntary sectors
- promoting cooperation for technical infrastructure development to facilitate broad participation in mutual recognition arrangements in both the regulated and voluntary sectors.

The main components of a fully functioning standards and conformance infrastructure must take account of economic and societal issues across the broad spectrum of an economy. The main elements of a fully functioning standards and conformance infrastructure are:

- establishment of, or access to, a national metrology capability (physical, chemical, biological) linked to relevant international systems
- establishment of a basic legal metrology capability that ensures fair measurement in the domestic market, removes barriers to regional and international trade and provides the basis for government regulation
- enactment of consumer protection law, amongst other mechanisms, to give legal force to the implementation of metrology in the domestic market and to remove unsafe goods from market
- establishment of a legal framework for technical regulations
- national standards adopted from or aligned with international standards to provide transparent national requirements
- development of a network of testing and calibration laboratories, inspection bodies and certification bodies
- establishment of an accreditation capability to provide recognition of competent laboratories, inspection bodies, certification bodies and reference material producers
- development of access to appropriate proficiency testing programs and measurement audits
- development of mutual recognition arrangements in the voluntary sector to support regional and international recognition of standards and conformance activities.

## 3 RELATIONSHIP BETWEEN SRBs and APEC SCSC

Currently, the five APEC Specialist Regional Bodies (SRBs), APLAC, APLMF, APMP, PAC and PASC, provide specialized advice to the APEC Subcommittee on Standards and Conformance (APEC SCSC) which reports to the APEC Committee on Trade and Investment (CTI). The SRBs are invited to participate in SCSC meetings with input co-ordinated by the Lead Shepherd. In 2006, the SRBs were granted direct access to the APEC SCSC documents via the AIMP website. In 2007, SRB members were invited to participate in the review of TILF proposals through the newly established Quality Assessment Framework (QAF) established by APEC to evaluate project proposals submitted for funding.

In 2008, the SRBs provided APEC with information material (an SRB information guide and booklet) intended to provide an ongoing reference resource. These documents will be reviewed 6-monthly and the SRBs would welcome comments by SCSC members.

Also in 2008, the SRBs presented one session of the 2-day 7th APEC Conference on Standards and Conformance covering the work of the SRBs and counterpart international organisations. The topics covered were: an introduction to the SRBs and their roles; import safety; standardisation in the field of energy implementation of a management and the measurement measurement's role in the development of national initiatives on food safety: pathology laboratory testing in the health sector. The presentations are available on the APEC website, under the Subcommittee on Standards and Conformance. Two papers were also presented in the final session, namely the SCSC-ABAC dialogue: the benefits of accreditation and conformity assessment for business; report on the ABAC initiative project on critical infrastructure and support systems standardisation.

Alongside this advisory input, the SRBs have also been engaged in specific activities that support the SCSC work program. These include ongoing activities and projects in response to the Bogor Goals and the Osaka Action Agenda.

Historically, some of these activities have attracted APEC Trade and Investment Liberalization and Facilitation (TILF) funding, and others have been funded through the SRBs' own initiatives. Some of these activities are motivated by industry-specific needs in individual economies or by regional industry interests. These activities are also able to support trade facilitation objectives beyond individual economies in regulated sectors.

It is critical that the ongoing relationship between the SRBs and the SCSC allows for early awareness of SCSC needs that could be supported through the work of the SRBs. To do this effectively, it is also essential that the SCSC members are fully aware of the SRBs' roles and their potential to assist the SCSC's existing and future work programs.

The SRB Strategic Plan provides an opportunity to develop better mechanisms for achieving this mutual awareness described above, particularly if these also capture the needs of regulators and industry in the region.

# 4 RECENT ACHIEVEMENTS BY THE SRBs IN SUPPORT OF APEC OBJECTIVES

The SCSC has provided a unique opportunity for the individual SRBs to have a common focus for identification of regional standards and conformance needs. However, in the past, the SRB's interactions with the SCSC have been largely reactive to topics raised from time to time within the SCSC rather than through a proactive planned approach to regional supporting activities.

These activities are mapped against the vision statement issued in the APEC leaders' declaration from Blake Island, Seattle, November 1993 and are leading towards achievement of the Bogor goals of open and free trade and investment in the Asia Pacific region no later than 2010 for developed economies and 2020 for developing economies.

**Annex 2** summarizes the activities undertaken by the individual SRBs over the past five year period in support of the development of standards and conformance infrastructure within the APEC region.

As examples, a major achievement of each SRB to date is:

- APLAC In the area of laboratory accreditation, APLAC met the Osaka Action Agenda target to have all APLAC member developed economies as signatories to the APLAC Mutual Recognition Arrangement (MRA) by the end of 2000, and all APLAC member developing economies (with the exception of Papua New Guinea) as signatories by the end of 2005. Entered into MOUs with APMP and PAC, and also with IAAC; APLAC shares some common membership with the last two organizations. Holds some governance positions on the ILAC Executive.
- APLMF Members have acquired abilities to develop and maintain uniform test procedures (UTPs) to provide the basis, for training courses such as on non automatic weighing instruments and fuel dispensers. These courses were funded by APEC-TILF and aim to facilitate capacity building and to underpin domestic and regional trade. Through these activities member economies enhance their technical competence and facilitate their future participation into the Mutual Acceptance Arrangement (MAA) framework on measuring instruments that was promoted by the OIML.

- APMP In the area of scientific metrology, all APEC economies that are also APMP members (except Papua New Guinea) are signatories to the MRA of the International Committee for Weights and Measures (CIPM). To provide the technical credibility for their measurement capability claims in the CIPM MRA, APMP members have conducted and participated in many regional and international comparisons of measurement capabilities. After rigorous international peer evaluation, these calibration and measurement capabilities are published in the international database that provides the technical basis for the MRA, underpinning international recognition of these capabilities. This is in direct support of trade facilitation.
- PAC PAC established voluntary Multilateral Recognition Arrangements (MLAs) for accreditation of quality and environmental management systems and product certification bodies. To date 15 economies have signed the QMS MLA, 12 have signed the EMS MLA and 8 have signed the Product MLA. PAC has also established Memorandums of Understanding (MoU's) with APLAC and the Inter-American Accreditation Cooperation (IAAC) as several members of these organizations are also members of PAC.
- PASC The organization, through its promotional activities on the importance of international standardization, has been successful in getting candidates from within its membership, including from developing economies, elected to positions of leadership in ISO, IEC, and the ITU, as well as having several of its members elected to the governance bodies of these organizations. Effective representation of APEC interests in these bodies has been achieved, for example, in the approval and implementation of global relevance policies in the ISO and IEC.

In addition, each of the SRBs effectively represents the interests of APEC economies through participation in the governance structures of the peak international standards and conformance organizations.

The SRB Strategic Plan provides an opportunity to establish a more strategic and structured approach to SRB regional interactions and to their ability to support and respond to SCSC needs.

**Annex 3** provides a listing of the SRB activities in the SRB 5-Year Action Plan for which cooperation and input of other SRBs is invited/included.

# 5 INDIVIDUAL ECONOMY DIAGNOSIS AND DEVELOPMENT PLAN

At the individual economy level there is a need to develop programs to address known technical infrastructure needs.

All APEC economies continue to develop their systems in response to national needs. The level of development and range of activities does, however, vary across the region.

Not all APEC economies are represented in each SRB and, conversely, the constituency of each SRB extends beyond the APEC economies. This is shown in the table below. The upper part of the table compares the economies in APEC with membership of each SRB. The green (light shaded) areas indicate common membership between APEC and the SRB; yellow (lighter shaded) indicates an affiliation; and red (dark shaded) indicates that the economy is not represented in the SRB.

The lower part of the table shows membership in SRBs of economies that are not members of APEC. In this part of the table green (light shade) indicates membership in the SRB; yellow (lighter shade) indicates affiliate membership; and red (dark shade) indicates no membership in the SRB.

# Table of economies' membership in APEC Specialist Regional Bodies

|                                |      |                             | APEC Specia                         | list Regional B                  | odies (SRBs)                   |  |
|--------------------------------|------|-----------------------------|-------------------------------------|----------------------------------|--------------------------------|--|
| Economies                      | APEC | APLME<br>Legal<br>Metrology | APMP<br>Measurement<br>Standards    | PASC<br>Documentary<br>Standards | PAC Accreditation (Certifiers) | APLAC<br>Accreditation<br>(Laboratory)               |
| Australia                      |      | NMIA                        | NMIA,<br>ARPANSA,<br>ANSTO          | SA                               | JAS-ANZ                        | NATA   |
| Brunei Darussalam              |      | CPRU                        | 744010                              | CPRU                             |                                | Min. of<br>Develop.                                  |
| Canada                         |      | MC, IC                      | (see note 1)                        | SCC                              | SCC                            | SCC, CALA  |
| Chile                          |      | INN                         | (see note 1)                        | INN                              | (see Note 3)                   |  |
| People's Republic of China     |      | AQSIQ                       | NIM                                 | SAC                              | CNAS                           | CNAS   |
| Hong Kong, China               |      | CPPB, C&ED                  | HKSCL, GL                           | ITCHSKAR                         | HKAS                           | HKAS   |
| Indonesia                      |      | DOM                         | KIM-LIPI                            | BSN                              | KAN                            | KAN  |
| Japan                          |      | METI, NMIJ/<br>AIST         | NMIJ/AIST,<br>NICT, CERI,<br>JEMIC  | JISC                             | JAB, JASC,<br>JIPDEC           | JAB, VLAC,<br>IA-JAPAN                               |
| Republic of Korea              |      | KATS, MOCIE                 | KRISS                               | KATS                             | KAB, KAS                       | KOLAS  |
| Malaysia                       |      | Min. of Trd,<br>SIRIM       | SIRIM-Berhad,<br>MINT               | DSM                              | Standards<br>Malaysia          | DSM  |
| Mexico                         |      | DGN                         | (see note 1)                        | DGN                              | EMA                            | EMA  |
| New Zealand                    |      | MCA                         | MSL, IRL                            | SNZ                              | JAS-ANZ                        | IANZ   |
| Papua New Guinea               |      | NISIT                       | NISIT                               | NISIT                            | (see Note 2)                   | PNGLAS   |
| Peru                           |      | INDECOPI                    | (see note 2)                        | INDECOPI                         | (See Note 3)                   | INDECOPI   |
| Philippines Russian Federation |      | ITDI, DOST<br>GOST          | ITDI<br>VNIIM                       | BPS<br>GOST                      | PAO                            | PAO<br>AAC Analitica                                 |
| Singapore                      |      | SPRING                      | A*STAR, HSA                         | SPRING                           | SAC                            | SAC  |
| Chinese Taipei                 |      | BSMI, MOEA                  | CMS/ITRI,<br>INER,<br>Chunghwa      |                                  | TAF                            | TAF  |
| Thailand                       |      | DCR                         | DSS, NIMT,<br>TISTR, OAP            | TISI                             | NAC                            | DMSc, DSS,<br>NSC-ONAC                               |
| United States                  |      | NIST, NCWM                  | (see note 1)                        | ANSI                             | ANSI                           | A2LA, IAS,<br>ACLASS,<br>L-A-B, AIHA,<br>NVLAP, PJLA |
| Viet Nam                       |      | STAMEQ                      | VMI                                 | TCVN                             | STAMEQ                         | BOA  |
|                                |      | OTHER ECONO                 | MIES INVOLVED                       | IN VARIOUS SR                    | Bs                             |  |
| Bangladesh                     |      | 14014                       | BSTI                                |                                  |                                | BAB  |
| Cambodia<br>Colombia           |      | MIME<br>CCCM                |                                     | ICONTEC                          |                                |  |
| UAE                            |      | CCCIVI                      |                                     | ICONTEC                          | DAC                            |  |
| Egypt                          |      |                             | NIS                                 |                                  | DAC                            |  |
| Fiji                           |      |                             | Min. of Com,<br>Ind., Trade &<br>PE | FTSQCO                           |                                |  |
| India                          |      |                             | NPL, BARC                           | BIS                              | NABCB                          | NABL   |
| Iran                           |      |                             | 13.15.41                            |                                  | IAS                            |  |
| Jordan                         |      |                             | JNMI                                |                                  |                                |  |
| Kazakhstan<br>DPR of Korea     |      | SAQM                        | KazInMetr<br>CIQM                   |                                  |                                |  |
| Laos                           |      | DISM                        | CIQIVI                              |                                  |                                |  |
| Mongolia                       |      | MNCSM                       | MASM                                | MASM                             |                                | MASM   |
| Myanmar                        |      |                             |                                     |                                  |                                |  |
| Nepal                          |      |                             | NBSM                                |                                  |                                |  |
| Pakistan                       |      |                             | NPSL                                |                                  | PNAC                           | PNAC   |
| South Africa                   |      |                             | NMISA                               | SABS                             |                                |  |
| Sri Lanka                      |      |                             | MUSSD                               |                                  |                                | SLAB   |
| Syria                          |      |                             | NSCL                                |                                  |                                |  |

# Table Legend

| Full Member      |  |
|------------------|--|
| Associate Member |  |
| Not a Member     |  |
| Note 1:          | These economies are not members of APMP as they participate in |
|                  | the Inter-American Metrology System (SIM)                      |
| Note 2:          | Peru is a member of SIM but not a CIPM-MRA signatory           |
| Note 3           | While they are not members of PAC, they are members of IAF     |
|                  | through membership in IAAC                                     |
| Note 4           | Membership of PASC corresponds to the membership of ISO which  |
|                  | corresponds to the membership of the United Nations            |

A list of acronyms is provided in **Annex 4**.

In reaching a diagnosis of its standards and conformance infrastructure development requirements, each economy will need to consider the key industry sectors where development of the standards and conformance elements need to be prioritized to assist regional trade.

The surveys undertaken to date by the SRBs have identified various types of activities that could be instigated to meet the identified priorities and to support the APEC SCSC work program, including the conduct of seminars, workshops, and training programs. Below is an outline of a mechanism that could be used to deliver various activities by the SRBs for support of the APEC SCSC. This could lead to projects for which the APEC SCSC support could be sought, such as funding or policy support.

The SRB Strategic Plan should provide assistance to the APEC SCSC and the SRBs in developing their own development programs and projects. In cases where the program identifies a project that the APEC SCSC can support, the following process is recommended:

- Step 1: APEC SCSC discusses, with input from the SRBs, and agrees on a list of standards and conformance activities of common interest in the region. This discussion should take account of any surveys of APEC economies already undertaken to determine areas of need.
- Step 2: A host economy for a specific activity is identified in accordance with the economy's prioritized needs. In considering the timing of the activity, it may be appropriate to link it to other activities that the target audience will be attending.
- Step 3: Co-sponsoring lead economies are identified that will work with the most appropriate SRBs (depending upon the activity) to develop a program for the activity.

# 6 SRB STRATEGIC PLAN AND UPDATING PROCESS

**Annex 1** outlines the SRBs' strategic plan for capacity building and related activities in the area of standards and conformance, including those activities that may be endorsed by the APEC SCSC. These activities will occur through the SRBs over the next five years, assisting APEC economies in achieving the Bogor Goals.

The SRBs have agreed that this will be a strategic plan for their activities, both separate and joint.

The SRBs will annually review and update the SRB five-year Action Plan (Annex 1), communicating with the APEC SCSC as necessary to report on activities

completed and to align with any changes in strategic direction by the SRBs or APEC.

The action points agreed in 2007 were to:

- 1. Establish an annual SRB Forum (2<sup>nd</sup> meeting, 22<sup>nd</sup> Feb 2008, 3<sup>rd</sup> meeting, 21<sup>st</sup> Feb 2009)
- 2. Develop an SRB information document/brochure (completed and presented to SCSC 2 in August 2008)
- 3. Establish cross-links between SRB websites (completed)
- 4. A rotating coordination role among the SRBs (established)

The action points agreed in 2008 were to:

- 1. Finalise the SRB Information Guide, both short form and long form, which was presented at SCSC II in August 2008
- 2. Arrange and conduct a 3 hour session on Standards and Conformance in the 7<sup>th</sup> APEC SCSC Conference on Standards & Conformance (presented in August 2008 in Cusco)

The proposed action points for 2009 are:

- Linkage and mechanisms to add value to the objectives of the APEC Food Safety Cooperation Forum
- Development of further joint and individual activities

### 7 CONCLUSION AND RECOMMENDATIONS

A key objective of the SRBs is to work with the APEC SCSC to facilitate the development of a standards and conformance infrastructure in each member economy to help achieve the APEC goals of free and open trade in the Asia Pacific region.

This paper summarizes the activities undertaken by the SRBs in recent years and outlines some projects and activities planned for the next five years.

The SRBs invite the APEC SCSC to review and comment on the SRB five-year Action Plan (**Annex 1**) on an ongoing basis. The SRBs request that comments be provided to the SRB Lead Shepherd by 31 March of each year to enable them to be incorporated into the SRB Strategic Plan for presentation to APEC SCSC II.

# Annex 1 SRB 5-Year Action Plan

| ANNEX 1  |                           |  |  |   |  | _  |
|--|---------------------------|--|--|---|--|--|
| Proposed action plan for SRBs, 2009-2013   |                           |  |  |   |  |  |
| `  |                           | 2009   | 2010   | 2011  | 2012   | 2013   |
| APLAC<br>(laboratory,<br>inspection body<br>and reference<br>material producer<br>accreditation) |                           | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety;                    | Funding support for<br>regional proficiency<br>testing programs with<br>emphasis on areas of<br>importance to trade in<br>the APEC region, e.g.<br>telecoms; food<br>safety; | Funding support<br>for regional<br>proficiency<br>testing programs<br>with emphasis on<br>areas of<br>importance to<br>trade in the<br>APEC region,<br>e.g. telecoms;<br>food safety; | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety;                    | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety;                    |
|  | CO-OPERATIVE<br>SOLUTIONS | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee) | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee)   | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee;  | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee) | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee) |

|   |   |   | Public<br>Information<br>Committee)   |   |   |
|---|---|---|---|---|---|
| SUPPORT A<br>MULTI-<br>LATERAL<br>TRADING<br>SYSTEM | Participation in APEC TEL MRA Task Force; information seminar for regulators in the economy hosting APLAC 2009 meetings   | Participation in APEC TEL MRA Task Force; information seminar for regulators in economy hosting APLAC 2010 meetings   | Participation in APEC TEL MRA Task Force; information seminar for regulators hosting APLAC 2011 meetings  | Participation in<br>APEC TEL MRA<br>Task Force;<br>information seminar<br>for regulators<br>hosting APLAC<br>2012 meetings  | Participation in<br>APEC TEL MRA<br>Task Force;<br>information seminar<br>for regulators<br>hosting APLAC<br>2012 meetings  |
| REDUCE<br>BARRIERS TO<br>TRADE                      | Continued enhancement of MRA in existing disciplines, 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 sectors | Continued enhancement of MRA in existing disciplines, 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 sectors | Continued enhancement of MRA in existing disciplines, 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 sectors | Continued enhancement of MRA in existing disciplines, 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 sectors | Continued enhancement of MRA in existing disciplines, 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 sectors |

| KNOWLEDGE SHARING | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; maintenance of a directory of proficiency testing programs available in the APEC region; maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; maintenance of a directory of proficiency testing programs available in the APEC region; maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; maintenance of a directory of proficiency testing programs available in the APEC region; maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; maintenance of a directory of proficiency testing programs available in the APEC region; maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; maintenance of a directory of proficiency testing programs available in the APEC region; maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region |
|-------------------|--|--|--|--|--|
|                   | APLAC web site   |
|                   | Training courses for APLAC MRA evaluators  | Training courses for<br>APLAC MRA<br>evaluators  | Training courses for APLAC MRA evaluators  | Training courses for APLAC MRA evaluators  | Training courses for<br>APLAC MRA<br>evaluators  |

|                            |                           | Training courses on topics identified by the APLAC Training Committee as critical for technical infrastructure development in the APEC region, specifically for 2009: a workshop on accreditation of medical laboratories, including point-of-care testing and traceability in laboratory medicine; workshop on accreditation of proficiency testing scheme providers | Training courses on topics identified by the APLAC Training Committee as critical for technical infrastructure development in the APEC region | Training courses on topics identified by the APLAC Training Committee as critical for technical infrastructure development in the APEC region | Training courses on topics identified by the APLAC Training Committee as critical for technical infrastructure development in the APEC region | Training courses on topics identified by the APLAC Training Committee as critical for technical infrastructure development in the APEC region |
|----------------------------|---------------------------|---|---|---|---|---|
|                            |                           | Continue to work with APMP and PAC on the implementation of MOUs with both bodies, including  | Continue to work with APMP and PAC on the implementation of MOUs with both bodies, including  | Continue to work with APMP and PAC on the implementation of MOUs with both bodies, including  | Continue to work with APMP and PAC on the implementation of MOUs with both bodies, including  | Continue to work with APMP and PAC on the implementation of MOUs with both bodies, including  |
|                            |                           | annual meetings<br>between the Chair of<br>APLAC and the<br>Chairs of APMP and<br>PAC   | annual meetings<br>between the Chair of<br>APLAC and the<br>Chairs of APMP and<br>PAC   | annual meetings<br>between the<br>Chair of APLAC<br>and the Chairs of<br>APMP and PAC   | annual meetings<br>between the Chair<br>of APLAC and the<br>Chairs of APMP<br>and PAC   | annual meetings<br>between the Chair<br>of APLAC and the<br>Chairs of APMP<br>and PAC   |
| APLMF<br>(Legal Metrology) | CO-OPERATIVE<br>SOLUTIONS | Hold APLMF and WG meetings in November 2009. Attend APEC-SRB workshop meeting, SCSC and related   | Hold APLMF and WG meetings in November 2010. Attend APEC-SRB workshop meeting, SCSC and related   | Hold APLMF and<br>WG meetings in<br>November 2011.<br>Attend APEC-<br>SRB workshop<br>meeting, SCSC   | Hold APLMF and<br>WG meetings in<br>November 2012.<br>Attend APEC-SRB<br>workshop meeting,<br>SCSC and related                                | Hold APLMF and WG meetings in November 2013. Attend APEC-SRB workshop meeting, SCSC and related   |

|   | meetings  | meetings   | and related meetings   | meetings   | meetings   |
|---|---|--|--|--|--|
|   | Hold WG on MAA meeting.   | Hold WG on MAA meeting.  | Hold WG on MAA meeting.  | Hold WG on MAA meeting.  | Hold WG on MAA meeting.  |
| SUPPORT A<br>MULTI-<br>LATERAL<br>TRADING<br>SYSTEM | Conduct a training course on weighing instruments and measuring devices that will be an MAA focused technical area                                | Conduct a training course on weighing instruments and measuring devices that will be an MAA focused technical area   | Conduct a training course on weighing instruments and measuring devices that will be an MAA focused technical area   | Conduct a training course on weighing instruments and measuring devices that will be an MAA focused technical area   | Conduct a training course on weighing instruments and measuring devices that will be an MAA focused technical area   |
| REDUCE<br>BARRIERS TO<br>TRADE                      | Conduct 4 training courses, seminars and workshops to cover new areas such as traffic safety, energy conserving and product safety including food | Conduct 4 training courses, seminars and workshop workshops to cover new areas such as traffic safety, energy conserving and product safety including food | Conduct 4 training courses, seminars and workshop workshops to cover new areas such as traffic safety, energy conserving and product safety including food | Conduct 4 training courses, seminars and workshop workshops to cover new areas such as traffic safety, energy conserving and product safety including food | Conduct 4 training courses, seminars and workshop workshops to cover new areas such as traffic safety, energy conserving and product safety including food |
|   | Continue surveying needs from member economies  | Continue surveying needs from member economies in legal metrology  | Continue<br>surveying needs<br>from member<br>economies in<br>legal metrology  | Continue surveying needs from member economies in legal metrology  | Continue surveying needs from member economies in legal metrology  |
| KNOWLEDGE<br>SHARING                                | Share outputs of<br>APLMF activities<br>through the website<br>and establish cross-<br>links  | Share outputs of<br>APLMF activities<br>through the website<br>and establish cross-<br>links   | Share outputs of<br>APLMF activities<br>through the<br>website and<br>establish cross-<br>links  | Share outputs of<br>APLMF activities<br>through the website<br>and establish<br>cross-links  | Share outputs of<br>APLMF activities<br>through the website<br>and establish cross-<br>links   |

|                                    |              | Publish handbooks<br>and reports of all the<br>conducted training<br>courses seminars<br>and workshops                                 | Publish handbooks<br>and reports of all the<br>conducted training<br>courses seminars<br>and workshops                               | Publish handbooks and reports of all the conducted training courses seminars and workshops                                    | Publish handbooks<br>and reports of all<br>the conducted<br>training courses<br>seminars and<br>workshops                     | Publish handbooks<br>and reports of all<br>the conducted<br>training courses<br>seminars and<br>workshops                     |
|------------------------------------|--------------|--|--|---|---|---|
| APMP<br>(Measurement<br>Standards) |              | Annual APMP GA<br>and related Meetings,<br>Dec 2009, Malaysia<br>Mid-year APMP (EC,<br>DEC and TC)<br>meetings, Apr-May<br>2009, Nepal | Annual APMP GA<br>and related Meetings,<br>Oct-Dec 2010,<br>Thailand  Mid-year APMP (EC,<br>DEC and TC)<br>meetings, Apr-May<br>2010 | Annual APMP GA<br>and related<br>Meetings, Oct-<br>Dec 2011<br>Mid-year APMP<br>(EC, DEC and<br>TC) meetings,<br>Apr-May 2011 | Annual APMP GA<br>and related<br>Meetings, Oct- Dec<br>2012<br>Mid-year APMP<br>(EC, DEC and TC)<br>meetings, Apr-May<br>2012 | Annual APMP GA<br>and related<br>Meetings, Oct- Dec<br>2013<br>Mid-year APMP<br>(EC, DEC and TC)<br>meetings, Apr-May<br>2013 |
|                                    | CO-OPERATIVE | Develop further cooperative activities with APLMF and APLAC  | Develop further cooperative activities with APLMF and APLAC  | Develop further cooperative activities with APLMF and APLAC   | Develop further cooperative activities with APLMF and APLAC   | Develop further cooperative activities with APLMF and APLAC   |
|                                    | SOLUTIONS    | Participate in relevant<br>APEC SCSC<br>activities and<br>activities in other<br>relevant APEC<br>forums (e.g., APEC<br>FSCF, ABAC)    | Participate in relevant<br>APEC SCSC<br>activities<br>and activities in other<br>relevant APEC<br>forums (e.g., APEC<br>FSCF, ABAC)  | Participate in relevant APEC SCSC activities and activities in other relevant APEC forums (e.g., APEC FSCF, ABAC)             | Participate in relevant APEC SCSC activities and activities in other relevant APEC forums (e.g., APEC FSCF, ABAC)             | Participate in relevant APEC SCSC activities and activities in other relevant APEC forums (e.g., APEC FSCF, ABAC)             |
|                                    |              | Participate effectively in SRB Forum and initiate and develop cooperative SRB activities.  | Participate effectively in SRB Forum and initiate and develop cooperative SRB activities.  | Participate effectively in SRB Forum and initiate and develop cooperative SRB activities.                                     | Participate effectively in SRB Forum and initiate and develop cooperative SRB activities.                                     | Participate effectively in SRB Forum and initiate and develop cooperative SRB activities.                                     |

| SUPPORT A<br>MULTI-<br>LATERAL<br>TRADING<br>SYSTEM | Provide input to and participate in relevant APEC and other SRB activities to improve dialogue with regional regulatory bodies       | Provide input to and participate in relevant APEC and other SRB activities to improve dialogue with regional regulatory bodies       | Provide input to<br>and participate in<br>relevant APEC<br>and other SRB<br>activities to<br>improve dialogue<br>with regional<br>regulatory bodies | Provide input to<br>and participate in<br>relevant APEC and<br>other SRB activities<br>to improve dialogue<br>with regional<br>regulatory bodies | Provide input to and participate in relevant APEC and other SRB activities to improve dialogue with regional regulatory bodies       |
|---|--|--|---|--|--|
| REDUCE<br>BARRIERS TO<br>TRADE                      | Undertake capacity building activities through e.g., seminars, workshops and training attachments.                                   | Undertake capacity<br>building activities<br>through e.g.,<br>seminars, workshops<br>and training<br>attachments.                    | Undertake capacity building activities through e.g., seminars, workshops and training attachments.  | Undertake capacity building activities through e.g., seminars, workshops and training attachments.   | Undertake capacity building activities through e.g., seminars, workshops and training attachments.                                   |
|   | Initiate and develop<br>activities to ensure<br>effective participation<br>by APMP member<br>economies in the<br>CIPM MRA            | Initiate and develop<br>activities to ensure<br>effective participation<br>by APMP member<br>economies in the<br>CIPM MRA            | Initiate and develop activities to ensure effective participation by APMP member economies in the CIPM MRA  | Initiate and develop<br>activities to ensure<br>effective<br>participation by<br>APMP member<br>economies in the<br>CIPM MRA                     | Initiate and develop<br>activities to ensure<br>effective<br>participation by<br>APMP member<br>economies in the<br>CIPM MRA         |
|   | Ongoing participation in the JCRB, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA | Ongoing participation in the JCRB, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA | Ongoing participation in the JCRB, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA                | Ongoing participation in the JCRB, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA             | Ongoing participation in the JCRB, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA |

|                      | Undertake regular needs assessments/gap analyses to review trade-related and other metrology issues of member economies and development of associated solutions. | Undertake regular needs assessments/gap analyses to review trade-related and other metrology issues of member economies and development of associated solutions. | Undertake regular needs assessments/gap analyses to review traderelated and other metrology issues of member economies and development of associated solutions. | Undertake regular needs assessments/gap analyses to review trade-related and other metrology issues of member economies and development of associated solutions. | Undertake regular needs assessments/gap analyses to review trade-related and other metrology issues of member economies and development of associated solutions.    |
|----------------------|--|--|---|--|---|
|                      | Task Force to quantify the impact of metrology on member economies   |  |   |  |   |
| KNOWLEDGE<br>SHARING | Undertake capacity<br>building activities<br>through seminars,<br>workshops and<br>training attachments,<br>etc  | Undertake capacity<br>building activities<br>through seminars,<br>workshops and<br>training attachments,<br>etc  | Undertake capacity building activities through seminars, workshops and training attachments, etc  | Undertake capacity<br>building activities<br>through seminars,<br>workshops and<br>training<br>attachments, etc  | Undertake capacity<br>building activities<br>through seminars,<br>workshops and<br>training<br>attachments, etc   |
|                      | Identify and develop<br>cooperative solutions<br>to meet the needs of<br>emerging<br>technologies (e.g.,<br>bio-, nano-<br>technology,<br>advanced materials)    | Identify and develop<br>cooperative solutions<br>to meet the needs of<br>emerging<br>technologies (e.g.,<br>bio-, nano-<br>technology,<br>advanced materials)    | Identify and develop cooperative solutions to meet the needs of emerging technologies (e.g., bio-, nanotechnology, advanced                                     | Identify and develop cooperative solutions to meet the needs of emerging technologies (e.g., bio-, nano-technology, advanced                                     | Identify and develop<br>cooperative<br>solutions to meet<br>the needs of<br>emerging<br>technologies (e.g.,<br>bio-, nano-<br>technology,<br>advanced<br>materials) |

|                           |                           |  |  | materials)  | materials)   |  |
|---------------------------|---------------------------|--|--|---|--|--|
|                           |                           | Develop regional<br>APMP networks for<br>knowledge-sharing<br>and research and<br>training development | Develop regional APMP networks for knowledge-sharing and research and training development | Use regional APMP networks for knowledge- sharing and research and training development | Use regional APMP networks for knowledge-sharing and research and training development | Use regional APMP networks for knowledge-sharing and research and training development |
|                           |                           | Proposed "APEC<br>School of Metrology"<br>(TBC)  |  |   |  |  |
|                           |                           | Workshop on how to evaluate industry's needs   |  |   |  |  |
| PASC<br>(Standardization) | CO-OPERATIVE<br>SOLUTIONS | Annual PASC and 3<br>Standing Committee<br>meetings  | Annual PASC and 3<br>Standing Committee<br>meetings  | Annual PASC and 3 Standing Committee meetings   | Annual PASC and<br>3 Standing<br>Committee<br>meetings                                 | Annual PASC and 3 Standing Committee meetings  |
|                           |                           | Meet annually and coordinate consistently with the other SRBs  | Meet annually and coordinate consistently with the other SRBs                              | Meet annually and coordinate consistently with the other SRBs                           | Meet annually and coordinate consistently with the other SRBs                          | Meet annually and coordinate consistently with the other SRBs                          |
|                           |                           | Attend/participate in APEC SCSC meetings   | Attend/participate in APEC SCSC meetings   | Attend/participate in APEC SCSC meetings  | Attend/participate in APEC SCSC meetings   | Attend/participate in APEC SCSC meetings   |
|                           |                           | Attend/participate in APEC SRB workshop meetings   | Attend/participate in<br>APEC SRB workshop<br>meetings                                     | Attend/participate<br>in APEC SRB<br>workshop<br>meetings                               | Attend/participate<br>in APEC SRB<br>workshop meetings                                 | Attend/participate in<br>APEC SRB<br>workshop meetings                                 |
|                           |                           | Attend/participate in APEC-SCSC workshop meetings  | Attend/participate in APEC-SCSC workshop meetings  | Attend/participate<br>in APEC-SCSC<br>workshop<br>meetings                              | Attend/participate<br>in APEC-SCSC<br>workshop meetings                                | Attend/participate in APEC-SCSC workshop meetings                                      |

|   | Meet and communicate with APEC Business Advisory Council (ABAC) to address Asia Pacific business priorities  | Meet and<br>communicate with<br>APEC Business<br>Advisory Council<br>(ABAC) to address<br>Asia Pacific business<br>priorities  | Meet and communicate with APEC Business Advisory Council (ABAC) to address Asia Pacific business   | Meet and<br>communicate with<br>APEC Business<br>Advisory Council<br>(ABAC) to address<br>Asia Pacific<br>business priorities   | Meet and communicate with APEC Business Advisory Council (ABAC) to address Asia Pacific business priorities   |
|---|--|--|--|---|---|
| SUPPORT A<br>MULTI-<br>LATERAL<br>TRADING<br>SYSTEM | Continue to facilitate APEC informal network meetings among experts in various fields, including: - ISO TC34 - Food Products - ISO TC 89 - Wood- based panels - ISO TC223 - Societal Security - IEC TC111 - Environmental standardization for electrical and electronic products and systems - ISO CASCO — Conformity assessment - Other | Continue to facilitate APEC informal network meetings among experts in various fields, including: - ISO TC34 - Food Products - ISO TC 89 - Wood- based panels - ISO TC223 - Societal Security - IEC TC111 - Environmental standardization for electrical and electronic products and systems - ISO CASCO - Conformity assessment - Other | priorities  Continue to facilitate APEC informal network meetings among experts in various fields, including: - ISO TC34 - Food Products - ISO TC 89 - Wood-based panels - ISO TC223 - Societal Security - IEC TC111 - Environmental standardization for electrical and electronic products and systems - ISO CASCO - Conformity | Continue to facilitate APEC informal network meetings among experts in various fields, including: - ISO TC34 - Food Products - ISO TC 89 - Wood-based panels - ISO TC223 - Societal Security - IEC TC111 - Environmental standardization for electrical and electronic products and systems - ISO CASCO - Conformity assessment | Continue to facilitate APEC informal network meetings among experts in various fields, including: - ISO TC34 - Food Products - ISO TC 89 - Wood-based panels - ISO TC223 - Societal Security - IEC TC111 - Environmental standardization for electrical and electronic products and systems - ISO CASCO — Conformity assessment - Other |
|   | Identify further areas<br>where there are gaps<br>in the international<br>standard suite which   | Identify further areas<br>where there are gaps<br>in the international<br>standard suite which   | assessment - Other Identify further areas where there are gaps in the international  | - Other  Identify further areas where there are gaps in the international   | Identify further areas where there are gaps in the international  |

|             | would assist trade for             | would assist trade for                | standard suite                     | standard suite                     | standard suite        |
|-------------|------------------------------------|---------------------------------------|------------------------------------|------------------------------------|-----------------------|
|             | Asia-Pacific                       | Asia-Pacific                          | which would                        | which would assist                 | which would assist    |
|             | economies.                         | economies.                            | assist trade for                   | trade for Asia-                    | trade for Asia-       |
|             | cconomics.                         | cconomics.                            | Asia-Pacific                       | Pacific economies.                 | Pacific economies.    |
|             |                                    |                                       | economies.                         | r dollic ccorioffics.              | r dollic ccorioffics. |
|             | Encourage the                      | Encourage the                         | Encourage the                      | Encourage the                      | Encourage the         |
|             | involvement within                 | involvement within                    | involvement                        | involvement within                 | involvement within    |
|             | the Asia Pacific                   | the Asia Pacific                      | within the Asia                    | the Asia Pacific                   | the Asia Pacific      |
|             | region in the                      | region in the                         | Pacific region in                  | region in the                      | region in the         |
| REDUCE      | development,                       | development,                          | the development,                   | development,                       | development,          |
| BARRIERS TO |                                    | · · · · · · · · · · · · · · · · · · · |                                    | •                                  | adoption, and use     |
| TRADE       | adoption, and use of international | adoption, and use of international    | adoption, and use of international | adoption, and use of international | of international      |
|             | standards over                     | standards over                        | standards over                     | standards over                     | standards over        |
|             |                                    |                                       |                                    |                                    |                       |
|             | regional standards                 | regional standards                    | regional                           | regional standards                 | regional standards    |
|             | 0                                  | O a dia a ta                          | standards                          | 0 - 1 - 1 -                        | 0 - 1 - 1 -           |
|             | Continue to                        | Continue to                           | Continue to                        | Continue to                        | Continue to           |
|             | encourage regulators               | encourage regulators                  | encourage                          | encourage                          | encourage             |
|             | in the Asia Pacific                | in the Asia Pacific                   | regulators in the                  | regulators in the                  | regulators in the     |
|             | region to use                      | region to use                         | Asia Pacific                       | Asia Pacific region                | Asia Pacific region   |
|             | harmonized voluntary               | harmonized voluntary                  | region to use                      | to use harmonized                  | to use harmonized     |
|             | standards as a basis               | standards as a basis                  | harmonized                         | voluntary standards                | voluntary standards   |
|             | for technical                      | for technical                         | voluntary                          | as a basis for                     | as a basis for        |
|             | regulation over                    | regulation over                       | standards as a                     | technical regulation               | technical regulation  |
|             | developing country                 | developing country                    | basis for                          | over developing                    | over developing       |
|             | specific technical                 | specific technical                    | technical                          | country specific                   | country specific      |
|             | regulations                        | regulations                           | regulation over                    | technical                          | technical             |
|             |                                    |                                       | developing                         | regulations                        | regulations           |
|             |                                    |                                       | country specific                   |                                    |                       |
|             |                                    |                                       | technical                          |                                    |                       |
|             |                                    |                                       | regulations                        |                                    |                       |
|             | Continue to                        | Continue to                           | Continue to                        | Continue to                        | Continue to           |
|             | encourage                          | encourage                             | encourage                          | encourage                          | encourage             |
|             | businesses in the                  | businesses in the                     | businesses in the                  | businesses in the                  | businesses in the     |
|             | Asia Pacific region to             | Asia Pacific region to                | Asia Pacific                       | Asia Pacific region                | Asia Pacific region   |
|             | develop and use                    | develop and use                       | region to develop                  | to develop and use                 | to develop and use    |
|             | harmonized voluntary               | harmonized voluntary                  | and use                            | harmonized                         | harmonized            |
|             | standards which can                | standards which can                   | harmonized                         | voluntary standards                | voluntary standards   |

|           | be used by regulators<br>in the region as a<br>basis for technical<br>regulations  | be used by regulators<br>in the region as a<br>basis for technical<br>regulations  | voluntary standards which can be used by regulators in the region as a basis for technical regulations   | which can be used<br>by regulators in the<br>region as a basis<br>for technical<br>regulations   | which can be used<br>by regulators in the<br>region as a basis<br>for technical<br>regulations   |
|-----------|--|--|--|--|--|
|           | Use the proposed mechanism for identifying a sector or economy requiring capacity building for standardization and deliver seminars / workshops. | Use the proposed mechanism for identifying a sector or economy requiring capacity building for standardization and deliver seminars / workshops. | Use the proposed mechanism for identifying a sector or economy requiring capacity building for standardization and deliver seminars / workshops. | Use the proposed mechanism for identifying a sector or economy requiring capacity building for standardization and deliver seminars / workshops. | Use the proposed mechanism for identifying a sector or economy requiring capacity building for standardization and deliver seminars / workshops. |
| KNOWLEDGE | Continue to expand<br>the transparency of<br>standards used in<br>each PASC/APEC<br>economy to facilitate<br>trade and market<br>access          | Continue to expand<br>the transparency of<br>standards used in<br>each PASC/APEC<br>economy to facilitate<br>trade and market<br>access          | Continue to expand the transparency of standards used in each PASC/APEC economy to facilitate trade and market access                            | Continue to expand<br>the transparency of<br>standards used in<br>each PASC/APEC<br>economy to<br>facilitate trade and<br>market access          | Continue to expand<br>the transparency of<br>standards used in<br>each PASC/APEC<br>economy to<br>facilitate trade and<br>market access          |
| SHARING   | Share information, presentations, and communication materials on PASC website of best practices in international standardization, regulator and  | Share information, presentations, and communication materials on PASC website of best practices in international standardization, regulator and  | Share information, presentations, and communication materials on PASC website of best practices in international                                 | Share information, presentations, and communication materials on PASC website of best practices in international standardization, regulator and  | Share information, presentations, and communication materials on PASC website of best practices in international standardization, regulator and  |

|   |                           | business use of voluntary standards to achieve effective regulatory compliance with minimimum negative impact on trade   | business use of voluntary standards to achieve effective regulatory compliance with minimimum negative impact on trade | standardization, regulator and business use of voluntary standards to achieve effective regulatory compliance with minimimum negative impact on trade | business use of voluntary standards to achieve effective regulatory compliance with minimimum negative impact on trade | business use of<br>voluntary standards<br>to achieve effective<br>regulatory<br>compliance with<br>minimum negative<br>impact on trade |
|---|---------------------------|--|--|---|--|--|
| PAC (Accreditation of certification bodies)  NOTE: PAC is currently reviewing its strategic plan and will update to this section in our regular reports to the APEC SCSC. | CO-OPERATIVE<br>SOLUTIONS | Hold PAC Annual<br>meetings in Chinese<br>Taipei in June 2009  | Hold PAC Annual<br>meetings in New<br>Zealand in 2010  | Hold PAC Annual<br>meetings in the<br>Philippines in<br>2011  | Hold PAC Annual meetings in 2012   | Hold PAC Annual meetings in 2013   |
|   | COLONIONO                 | Attend SRB and workshops / meetings in Singapore in February 2009  Continue to work with APLAC to implement the PAC/APLAC MoU, and with IAAC to implement the PAC/IAAC | Attend APEC SRB workshops / meetings   | Attend APEC<br>SRB workshops /<br>meetings  | Attend APEC SRB<br>workshops /<br>meetings   | Attend APEC SRB<br>workshops /<br>meetings   |

| SUPPORT A<br>MULTI-<br>LATERAL | Encourage more PAC members to join the existing PAC MLAS (QMS, EMS Product), and other program(s) established as applicable and achieve targets as set under the PAC Strategic Plan   | Encourage more<br>PAC members to join<br>the existing PAC<br>MLAS  | Encourage more<br>PAC members to<br>join the existing<br>PAC MLAS   | Encourage more<br>PAC members to<br>join the existing<br>PAC MLAS   | Encourage more<br>PAC members to<br>join the existing<br>PAC MLAS   |
|--------------------------------|---|--|---|---|---|
| TRADING<br>SYSTEM              | Identify further areas where there is a need for MLAs which would assist trade for Asia-Pacific economies per PAC's Strategic Plan (proposed) activity to Review MLAs offered and potential for new MLAs  | Identify further areas<br>where there is a need<br>for MLAs which<br>would assist trade for<br>Asia-Pacific<br>economies | Identify further<br>areas where<br>there is a need<br>for MLAs which<br>would assist<br>trade for Asia-<br>Pacific<br>economies | Identify further<br>areas where there<br>is a need for MLAs<br>which would assist<br>trade for Asia-<br>Pacific economies | Identify further<br>areas where there<br>is a need for MLAs<br>which would assist<br>trade for Asia-<br>Pacific economies |
| REDUCE<br>BARRIERS TO<br>TRADE | Continue to review need for other MLAs and the status of existing MLAs per PAC's Strategic Plan (proposed activities to "Review MLAs offered and potential for new MLAs" and "Set targets for new MLA signatories to each existing MLA"  Investigate MoU with | Continue to review need for other MLAs and the status of existing MLAs.  | Continue to<br>review need for<br>other MLAs and<br>the status of<br>existing MLAs.   | Continue to review need for other MLAs and the status of existing MLAs.   | Continue to review need for other MLAs and the status of existing MLAs.   |
|                                | SADCA and continue to implement MoUs  |  |   |   |   |

|                      | with APLAC and IAAC  |  |  |  |  |
|----------------------|--|--|--|--|--|
| KNOWLEDGE<br>SHARING | Seek to implement training recommendations from the 2008 Plenary: - FSMS (Part 1) - Auditor Competence (Part 1) - ISO/IEC 14065 (Part 1) – concurrent with the PAC Plenary   | Implement training recommendations from the 2008/2009 Plenary: - FSMS (Part II) - Auditor Competence (Part II) - ISO/IEC 14065 - ISO/IEC 17065 | Implement<br>training<br>recommendations<br>from the 2010<br>Plenary | Implement training recommendations from the 2011 Plenary | Implement training recommendations from the 2012 Plenary |
|                      | New PAC Website to<br>be launched and<br>DVD to be revised as<br>necessary after the<br>Plenary  | PAC Website and DVD continuously updated   | PAC Website and<br>DVD continuously<br>updated                       | PAC Website and<br>DVD continuously<br>updated           | PAC Website and DVD continuously updated                 |
|                      | PAC Newsletter published twice   | PAC Newsletter published   | PAC Newsletter published   | PAC Newsletter published                                 | PAC Newsletter published                                 |
|                      | PAC information to be adapted to include explanations on ISO/IEC 17021 requirements to educate governments and regulators in response to the issue re organizations providing consultancy and certification as a package |  |  |  |  |
|                      | Continue to provide reports to other SRBs and APEC SCSC and  | Continue to provide reports to other SRBs and APEC SCSC and  | Continue to provide reports to other SRBs and                        | Continue to provide reports to other SRBs and APEC       | Continue to provide reports to other SRBs and APEC       |

| attend meetings<br>where possible  | attend meetings<br>where possible  | APEC SCSC and attend meetings where possible                            | SCSC and attend meetings where possible  | SCSC and attend<br>meetings where<br>possible                                    |
|--|--|---|--|--|
| Hold Open Forum /<br>Industry Seminar in<br>conjunction with<br>Plenary meetings | Hold Open Forum /<br>Industry Seminar in<br>conjunction with<br>Plenary meetings | Hold Open Forum / Industry Seminar in conjunction with Plenary meetings | Hold Open Forum /<br>Industry Seminar in<br>conjunction with<br>Plenary meetings | Hold Open Forum /<br>Industry Seminar in<br>conjunction with<br>Plenary meetings |
| Continue to work with IAAC to implement the PAC/IAAC MoU                         |  |   |  |  |

# Annex 2 SRB 5-Year Action Archive

| ANNEX 2   |                           |   |   |   |   |   |
|---|---------------------------|---|---|---|---|---|
| Activities over past 5 years, 2004-2008   |                           |   |   |   |   |   |
|   |                           | 2004  | 2005  | 2006  | 2007  | 2008  |
| APLAC (laboratory, inspection body and reference material producer accreditation) |                           | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety, (some also with partial funding support from APEC TILF in 2003 -2005)  Annual General | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety, (some also with partial funding support from APEC TILF in 2003 -2005)  Annual General | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety, (some also with partial funding support from APEC TILF in 2003 -2005)  Annual General | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety, (some also with partial funding support from APEC TILF in 2003 -2005)  Annual General | Funding support for regional proficiency testing programs with emphasis on areas of importance to trade in the APEC region, e.g. telecoms; food safety;     |
|   | CO-OPERATIVE<br>SOLUTIONS | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee)  | Annual General Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee)  | Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee)   | Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee)   | Assembly and associated meetings of APLAC committees (Training Committee; Technical Committee; Proficiency Testing Committee; Public Information Committee) |
|   |                           |   |   | Signing MoUs with APMP and PAC  | Ongoing liaison and cooperation with APMP and   | Ongoing liaison<br>and cooperation<br>with APMP and   |

|     |                                |  |  |   | PAC under the MOUs  | PAC under the MOUs  |
|-----|--------------------------------|--|--|---|---|---|
|     | JPPORT A                       |  | Participation in<br>APEC TEL MRA<br>Task Force;  | Participation in<br>APEC TEL MRA<br>Task Force;   | Participation in<br>APEC TEL MRA<br>Task Force;   | Participation in APEC TEL MRA Task Force; information seminar for regulators in Singapore, the economy hosting APLAC 2008 meetings  |
| Т   | TI-LATERAL<br>RADING<br>SYSTEM |  | Training course for APLAC MRA lead evaluators  | Training course for APLAC MRA evaluators  | Training course for APLAC MRA evaluators  | Training course for<br>APLAC MRA<br>evaluators  |
|     | ser<br>reg                     | eminar for US<br>gulators,<br>olumbia, MD, | Information<br>seminar for Thai<br>regulators, Chiang<br>Mai, Thailand   | Information<br>seminar for<br>Chinese Taipei<br>regulators and<br>trade officials,<br>Taipei, Chinese<br>Taipei | Information<br>seminar for<br>Malaysian<br>regulators, Kuala<br>Lumpur, Malaysia  | Information<br>seminar for<br>Singapore<br>regulators,<br>Singapore   |
| BAF | exp                            | pansion of<br>PLAC MRA                     | All APLAC members in APEC developing economies (except PNG) signatories to APLAC MRA (for testing and calibration) by end of 2005 (OAA objective); decision to extend APLAC MRA to include accreditation of reference material producers | Continued<br>expansion of<br>APLAC MRA  | Continued enhancement of MRA in existing disciplines, 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 | Continued enhancement of MRA in existing disciplines, 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<br>sectors. APLAC<br>extended the MRA<br>to accreditation of<br>reference material<br>producers.  | and mandatory sectors. Working to extend the MRA to cover accreditation proficiency testing providers.   |
|--|---|---|---|--|
|  |   |   | Inaugural signing of<br>APLAC MRA for<br>accreditation of<br>Reference Material<br>Producers in Dec<br>2007   |  |
| Production of various guidance documents on technical issues related to accreditation and conduct of proficiency testing programs;  VLEDGE ARING | Production of various guidance documents on technical issues related to accreditation and on the conduct of proficiency testing programs; | Production of various guidance documents on technical issues related to accreditation and on the conduct of proficiency testing programs; | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; | Continued production of various guidance documents on technical issues related to accreditation of laboratories, inspection bodies and reference material producers and on the conduct of proficiency testing programs; maintenance of a directory of proficiency testing programs available in the APEC region; maintenance of a directory of measurement artefacts available for use for |

| Maintenance of a directory of proficiency testing programs available in the APEC region; APLAC web site   | Maintenance of a directory of proficiency testing programs available in the APEC region; APLAC web site   | Maintenance of a directory of proficiency testing programs available in the APEC region; APLAC web site  | Maintenance of a directory of proficiency testing programs available in the APEC region; APLAC web site  | measurement audits in the APEC region  Maintenance of a directory of proficiency testing programs available in the APEC region;  APLAC web site  |
|---|---|--|--|--|
| Maintenance of a directory of measurement artefacts for measurement audits in the APEC region;  Training course on development and conduct of proficiency testing programs in compliance with ISO/IEC Guide 43 (partially funded by APEC TILF); | Maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region; Training course on development and conduct of proficiency testing programs in compliance with ISO/IEC Guide 43 (partially funded by APEC TILF) | Maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region; Training course on accreditation of reference material producers; | Maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region  Training course on development and conduct of PT programs | Maintenance of a directory of measurement artefacts available for use for measurement audits in the APEC region  Training courses on topics identified by the APLAC Training Committee as critical for technical infrastructure development in the APEC region, specifically; Train the trainer course for trainers of technical assessors for refernce material producers; workshop on accreditation of inspection bodies |

| Workshop on accreditation of medical laboratories to ISO 15189 | Workshop on<br>ISO/IEC 17011, the<br>new Standard for<br>accreditation<br>bodies; | Training course on accreditation of inspection bodies (with participation also by PAC) | Workshop on accreditation of reference material producers  | (with non-APLAC PAC members invited); part 3 of a 3 part series of workshops on the development and conduct of PT programs                            |
|--|---|--|--|---|
| 10100  | bodies,   | also by i rioj   | Workshop on<br>measurement<br>traceability in<br>laboratory medicine<br>and ISO 15189<br>Working with  | Continue to work  |
|  |   |  | APMP and PAC on<br>the implementation<br>of MOUs with both<br>bodies, including<br>annual meetings<br>between the Chair<br>of APLAC and the<br>Chairs of APMP<br>and PAC, both<br>meetings being in<br>October 2007; | with APMP and PAC on the implementation of MOUs with both bodies, including annual meetings between the Chair of APLAC and the Chairs of APMP and PAC |
|  |   |  | common issues identified and developed   |   |
|  |   |  | Joint seminar with<br>APMP for<br>developing<br>economies October  |   |

|                            |   |  |   |   | 2007  |  |
|----------------------------|---|--|---|---|---|--|
| APLMF<br>(Legal Metrology) | CO-OPERATIVE<br>SOLUTIONS                       | Hold the APLMF and WG meetings  Attend the APEC-SCSC meetings  | Hold the APLMF and WG meetings  Attend the APEC-SCSC meetings                 | Hold the APLMF and WG meetings  Attend the APEC-SCSC meetings                                   | Hold APLMF and WG meetings in November 2007. Attend APEC-SCSC and SRB workshop meeting. | Hold APLMF and WG meetings in October 2008. Attend APEC-SRB Coordination Meeting and SCSC and related  |
|                            | SUPPORT A<br>MULTI-LATERAL<br>TRADING<br>SYSTEM | Hold a WG on<br>MAA.<br>(also mentioned in<br>'reduce barriers')   | Hold a WG on MAA.  (also mentioned in 'reduce barriers')                      | Hold a WG on MAA.   | Hold a WG on MAA.  (also mentioned in 'reduce barriers')                                | meetings Hold WG on MAA meeting. Conduct a training course on Flow Meters that will be an MAA focused technical area.  |
|                            |   | Survey on demanded and priority fields for members.  | Survey on demanded and priority fields for members.                           | Survey on metrology of agricultural products.   | Survey on Medical<br>Instruments Survey<br>on Training Needs<br>for 2008-2009           |  |
|                            | REDUCE<br>BARRIERS TO<br>TRADE<br>*APEC PROJECT | Training Course on<br>Developing<br>Legislation for the<br>Implementation of<br>OIML R87<br>(Prepackaged<br>Goods) (July 2004<br>in Kuala Lumpur,<br>Malaysia) | Training Course on<br>Electricity Meters<br>(March 2005 in<br>Hanoi, Vietnam) | Training Course on<br>Electricity Meters,<br>(February 2006 in<br>Ho Chi Minh City,<br>Vietnam) | Workshop Metrology of Agricultural Products and Foods (Feb 2007 Chiang Thailand) Mai)   | Conduct 4 training courses, seminars and workshop  1. Train the Trainer Course on the Verification of Mechanical Weighing Scales May. 13-16, 2008, Pattaya, Thailand  2. Workshop on |
|                            |   |  |   |   |   | Workshop on     Metrology in   |

|  |   |  |   | Food Safety, Agricultural Products and Product Safety Jun. 4-6, 2008, Hangzhou, PR China       |
|--|---|--|---|--|
|  |   |  |   | 3、Training Course on Automated Sphygmomano -meters, Jun. 23 - 27, 2008 ,Taipei, Chinese Taipei |
|  |   |  |   | 4、Training Course on Water Meters, Sept. 23 - 26, 2008, Hanoi, Vietnam                         |
| Seminar on<br>Automated<br>Sphygmomanomet<br>ers (August 2004 in<br>Taipei, Chinese<br>Taipei) | Training Course on<br>Fuel Dispensers -<br>Verification of Non<br>LPG / LPG<br>Dispensers (April<br>2005 in Pattaya,<br>Thailand) | Training Course on<br>Practical<br>Application of OIML<br>R87 on<br>Prepackaged<br>Goods (April 2006<br>in Shah Alam,<br>Malaysia) | Seminar on<br>Electricity Meters<br>(March, 2007 in<br>Beijing, PR China) |  |
| Training Course on:<br>Train the Trainer<br>Course on the<br>Verification of Non-<br>Automatic | Train the Trainer Course on the Verification of Non- Automatic Weighing   | Training Course on<br>CNG Fuel<br>Dispensers (June<br>2006 in Shah Alam,<br>Malaysia)  |   |  |

|                      | Weighing<br>Instruments<br>(November 204 in<br>Shanghai, PR<br>China)                      | Instruments<br>(September 2005 in<br>Jakarta, Indonesia)  |   |   |                                |
|----------------------|--|---|---|---|--------------------------------|
|                      | (This course was<br>not supported by<br>APEC nor APLMF)                                    | (This course was<br>not supported by<br>APEC nor APLMF)   | Seminar on<br>Automated<br>Sphygmomanomet<br>er (July 2006 in<br>Taipei, Chinese<br>Taipei)   | Train the Trainer Course on the Verification of Mechanical Weighing Scales (Sept. 2007 in Ho Chi Ming, Vietnam    |                                |
|                      | (This course was<br>not supported by<br>APEC nor APLMF)                                    | *Traceability of Non-Contacting Clinical Thermometers (September 2005 in Bangkok, Thailand) (This course was not supported by APEC nor APLMF) | Training Course on<br>LPG Fuel<br>Dispensers (August<br>2006 in Shanghai,<br>PR China)  | Training Course on<br>Furl Dispensers for<br>NGV (Natural Gas<br>Vehicle) (Nov. 2007<br>in Shah Alam<br>Malaysia) |                                |
|                      | (This course was not supported by APEC nor APLMF)  | (This course was not supported by APEC nor APLMF)   |   |   |                                |
|                      |  | (This course was not supported by APEC nor APLMF)   |   |   |                                |
| KNOWLEDGE<br>SHARING | Handbook on<br>Traceability in<br>Legal Metrology<br>(March 2004,<br>APEC#204-CT-<br>01.4) | Handbook on<br>Prepackaged<br>Goods (August<br>2005, APEC#205-<br>CT-03.1)  | Report of Training<br>Course on<br>Verification of Non-<br>Automatic<br>Weighing<br>Instruments<br>(February 2006,<br>APEC# 205-CT- | Handbook on<br>Electricity Meters<br>March 2007<br>(APEC#207-CT-<br>03.1 and ISBN4-<br>9905094-7-2)               | Make progress in our web-site. |

|  |   | 03.4)   |  |   |
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|  |   |   |  |   |
|  |   |   |  |   |
|  | Handbook on<br>Automated<br>Sphygmomanomet<br>ers (October 2005,<br>APEC#205-CT-<br>03.3) | Report of Training<br>Course on<br>Electricity Meters<br>(February 2006,<br>APEC# 205-CT-<br>03.5)                      | Handbook on<br>Mechanical<br>Weighing Scales,<br>November 2007,<br>[Identification<br>number                           | Publish handbooks<br>and reports of all<br>the conducted<br>training courses<br>seminars and<br>workshops |
|  |   |   | APEC#208-CT-<br>03.1 and ISBN 978-<br>981-08-1310-9]   |   |
|  |   | Report of Training<br>Course on Fuel<br>Dispensers<br>(February 2006,<br>APEC#206-CT-<br>03.1)                          | Handbook on Metrology in Food Safety, Agricultural Products and Products Safety, November 2008 [Identification number; |   |
|  |   |   | APEC#208-CT-<br>03.5 and ISBN 978-<br>981-08-1310-9  |   |
|  |   | Handbook on<br>Verification of Non-<br>Automatic<br>Weighing<br>Instruments<br>(February 2006,<br>APEC#206-CT-<br>03.2) |  |   |
|  |   | Handbook on<br>Electricity Meters<br>(June 2006,  |  |   |

|                                    | CO-OPERATIVE | Annual APMP<br>General Assembly<br>and related<br>meetings (China,<br>Oct 04) | Annual APMP<br>General Assembly<br>and related<br>meetings (India,<br>Dec 05) | APEC# 206-CT- 03.3)  Handbook on Prepackaged Goods (July 2006, APEC#206-CT- 01.3)  Handbook on CNG Fuel Dispensers (August 2006, APEC#206-CT- 03.4)  Annual APMP General Assembly and related meetings (Korea, Oct 06) | Host APMP GA<br>and associated<br>meetings in Sydney<br>in Oct/Nov 07,<br>including joint                            | Annual APMP GA<br>and related<br>meetings,<br>Indonesia Nov 08   |
|------------------------------------|--------------|---|---|--|--|--|
| APMP<br>(Measurement<br>Standards) | SOLUTIONS    | Oct 04)   | Dec 03)   | CCI (III)  | APMP-ILAC/IAF<br>Seminar focused<br>on DEs   | Annual mid-year<br>APMP (EC, DEC<br>and TC) meetings,<br>Bangladesh, May   |
| January Value                      |              |   | APMP Developing<br>Economies'<br>Committee (DEC)<br>Needs Survey              | Signed APMP-<br>APLAC MoU,<br>December 06  | Initiate/participate<br>in APEC<br>SCSC/SRBs<br>workshops and<br>SCSC meetings -<br>Cairns, June 2007                | Develop APMP- APLMF cooperation - APMP input being provided to APLMF Workshop on Food & Agricultural Products (Jun 08) |
|                                    |              |   | APMP DEC<br>Planning Workshop<br>(Phase 1), May 05                            | APMP DEC<br>Strategic Planning<br>Workshop (Phase<br>2), Jul 06  | Initiate cooperative activities with APLAC based on the APMP-APLAC MoU established in December 2006 A meeting of the | Develop further cooperative activities with APLAC based on APMP-APLAC MoU established in December 2006.                |

|   |   |  |   | APMP & APLAC<br>Chairs was held on<br>29 Oct 07 in<br>Sydney, to develop<br>joint cooperation<br>under the MoU  | APMP-APLAC<br>Chairs' mtg held in<br>Mar 08.   |
|---|---|--|---|---|--|
|   |   | APLAC observer<br>participation in<br>APMP TC Chairs'<br>Meeting, Bangkok,<br>May 05 | APMP Strategic<br>Planning<br>Workshop, Jul 06                                      | Initiate and develop<br>cooperative SRB<br>activities – provided<br>the Coordinator<br>role for first 12<br>months of the SRB<br>Forum, established<br>in Jan 07. | Participate in relevant APEC SCSC activities (e.g., SRB Coordination Meeting, 7th APEC Conf on S&C, Chemical Metrology I/s Seminar)              |
|   |   |  |   | With APLAC,<br>organised SRBs-<br>SCSC Workshop<br>associated with<br>SCSC II meetings<br>in July 2007.   | Initiate and develop<br>cooperative SRB<br>activities - develop<br>agenda and papers<br>for SRB<br>Coordination Mtg,<br>Feb 08                   |
|   |   |  |   |   | Provide APMP<br>input for and help<br>develop joint SRB<br>"Information<br>Guide", Aug 08  |
| SUPPORT A<br>MULTI-LATERAL<br>TRADING<br>SYSTEM | Provide input to<br>and participate in<br>relevant APEC and<br>other SRB activities | Provide input to<br>and participate in<br>relevant APEC and<br>other SRB activities  | Provide input to<br>and participate in<br>relevant APEC and<br>other SRB activities | Identify activities and mechanisms to provide effective input to and participate in relevant APEC and other SRB activities to improve dialogue with regional      | Provide input to<br>and participate in<br>relevant APEC and<br>other SRB activities<br>to improve dialogue<br>with regional<br>regulatory bodies |

|                                |   |   |   | regulatory bodies  |  |
|--------------------------------|---|---|---|--|--|
| REDUCE<br>BARRIERS TO<br>TRADE | Participation in JCRB: As one of the 5 Regional Metrology Organisations involved in the JCRB, ongoing representation of the Asia Pacific in the development and implementation of the CIPM MRA. | Participation in JCRB: As one of the 5 Regional Metrology Organisations involved in the JCRB, ongoing representation of the Asia Pacific in the development and implementation of the CIPM MRA. | Participation in JCRB: As one of the 5 Regional Metrology Organisations involved in the JCRB, ongoing representation of the Asia Pacific in the development and implementation of the CIPM MRA. | Ongoing participation in JCRB, as one of the 5 Regional Metrology Organisations, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA               | Undertake capacity building activities, e.g., Metrology in Chemistry (MiC), through seminars, workshops and training attachments – MiC Workshop May 08, Bangladesh, technical workshops associated with APMP 2008 Meetings, Nov - Indonesia; TCQM GAWG Workshop, May 08, Korea |
|                                | CTI 16/2004T International Comparisons of Metrology Standards between NMIs in Developing Economies: Standards artefacts for international comparisons were prepared for round- robin            | CTI 16/2005T International Comparisons of Metrology Standards between NMIs in Transportation fees for international comparisons were supported in 2005 and 2006 by the project.                 | CTI 15/2006T Peer Review Assessment of Quality Systems in National Metrology Institutes: Group peer reviews are discussed for APEC economies. The reviews were to be performed in 2007.         | Participate in Joint<br>Committee of<br>Regional Metrology<br>Organisations and<br>the BIPM (JCRB)<br>Workshop to assist<br>developing<br>economies'<br>participation in<br>CIPM MRA (May<br>07) | Initiate and develop<br>activities to ensure<br>effective<br>participation by<br>APMP member<br>economies in the<br>CIPM MRA – CIPM<br>MRA Workshop,<br>May 08,<br>Bangladesh and<br>Nov 08, Indonesia   |

|                      | measurements.  |  |   |  |   |
|----------------------|--|--|---|--|---|
|                      |  |  |   |  |   |
|                      |  |  | APMP DEC-TCQS<br>Workshops on<br>Assisting DEs<br>participation in the<br>CIPM MRA (Jul 06<br>Philippines; Dec 06<br>India) | Development of<br>APMP TCQS/DEC<br>guideline<br>documents to<br>assist developing<br>economies'<br>participation in<br>CIPM MRA. | Ongoing participation in JCRB, enabling representation of the Asia Pacific in the development and implementation of the CIPM MRA. 20th JCRB Mtg in New Zealand in May 08.   |
| KNOWLEDGE<br>SHARING | APMP technical workshops held in association with annual APMP meetings | APMP technical<br>workshops held in<br>association with<br>annual APMP<br>meetings | APMP technical<br>workshops held in<br>association with<br>annual APMP<br>meetings  | APMP technical<br>workshops held in<br>association with<br>annual APMP<br>meetings   | As above, undertake capacity building activities through seminars, workshops and training attachments, etc (MiC Workshops – Bangladesh & Indonesia, technical workshops associated with APMP 2008 Meetings, TCQM GAWG Workshop) |

| "Workshop on<br>Gauge Block<br>Calibration and<br>Practice" October<br>4-6 2004,<br>CMS/ITRI | "Participants' Workshop on the Outcomes of the APMP.QM-P2 Comparison on the Ability to Measure Cadmium Levels in Rice" | "APMP DEC-<br>TCQM International<br>Symposium and<br>Workshop on<br>Metrology in<br>Chemistry" 20 & 21<br>February 2006 in<br>Malaysia.        | Workshops on<br>development of<br>Guide for Metrology<br>in Chemistry (MiC)<br>for developing<br>APMP economies -<br>June 07 (China),<br>Oct 07 (Sydney)  |  |
|--|--|--|---|--|
|  | "Advances in<br>Metrology" (AdMet)<br>Symposium,<br>organised by NPL,<br>India, Nov 05                                 | "APMP TCQM<br>GAWG 4th<br>Workshop on Gas<br>CRM", 22, 23 and<br>24 February 2006,<br>Pattaya, Thailand.<br>NIM Thailand<br>hosted the meeting | Convene a "technical assistance" workshop bringing together deliverers and recipients of TA to a) identify lessons learnt from previous TA projects and b) develop mechanisms to enhance coherence and effectives of future TA project delivery - June 07 (China) | Initiate regional APMP networks for knowledge-sharing and research and training development  |
|  |  |  | APEC TILF MU<br>Workshop - Oct 07<br>(Sydney)   | Expansion of Guide for Metrology in Chemistry (MiC) for developing economies globally – Input to APEC Chemical Metrology I/S Seminar, involving SIM economies Development of |

|                           |                           |  |   |  |  | session on<br>developing country<br>metrology outreach<br>activities for NCSLI<br>2008                      |
|---------------------------|---------------------------|--|---|--|--|---|
| PASC<br>(Standardization) |                           | PASC and PASC<br>SC meetings –<br>Vancouver Canada | PASC and PASC<br>SC meetings –<br>Nagoya Japan                  | PASC and PASC<br>SC meetings -<br>Cape Town South<br>Africa  | Annual PASC and<br>3 SC meetings –<br>Cartagena<br>Columbia  | Annual PASC and PASC EC meetings – Shanghai, China  |
|                           |                           | Workshop on Good<br>Regulatory Practice            | Workshop on Value of Standardization to Business and Regulators | Workshop on Training Needs of Developing Countries   | Attend APEC SRB workshop meetings  | Participate in APEC<br>Good Regulatory<br>Practice Workshop<br>- Peru                                       |
|                           | CO-OPERATIVE<br>SOLUTIONS | Workshop on<br>Twinning &<br>Mentoring             | Mapped list of<br>PASC participation<br>in ISO & IEC<br>TCs/SCs | Pilot Project for increased Asia Pacific cohesion in international standardization activities (IEC/TC111, ISO/TC223) | Plan PASC 30 to include COPANT (Americas standards grouping) and a session with ABAC on standardisation issues | Begin discussions<br>on APEC/PASC<br>initiative on Energy<br>Management<br>Standardization                  |
|                           |                           |  |   |  | Develop a more cooperative plan for participation with other SRB's   | Attend/participate<br>in APEC SRB<br>workshop meetings  |
|                           |                           |  |   |  |  | Attend/participate in APEC-SCSC workshop meetings   |
|                           |                           |  |   |  |  | Meet and communicate with APEC Business Advisory Council (ABAC) to address Asia Pacific business priorities |

| SUPPORT A<br>MULTI-LATERAL<br>TRADING<br>SYSTEM |  | PASC-ISO MOU<br>Signed | PASC-IEC MOU<br>Signed  Encourage the<br>completion of the<br>development of<br>International<br>Standards in the<br>areas of structural<br>design (ISO 22111)<br>and wood products<br>(ISO 16895 and<br>ISO 16893) | Continue to facilitate APEC informal network meetings among experts in various fields, including: - IEC TC61 - Safety of household and similar electrical appliances - IEC TC111 - Environmental standardization for electrical and electronic products and systems - ISO TC34 - Food Products - ISO TC223 - Societal Security - Other |
|---|--|------------------------|---|--|
|   |  |                        |   | Identify further areas where there are gaps in the international standard suite which would assist trade for Asia-Pacific economies.   |

| REDUCE<br>BARRIERS TO<br>TRADE | May 2005 – Suva, Fiji: - To prepare Fiji for to ascend as full members of ISO Standards Australia and Standards New Zealand delivered a two-day workshop regarding Standards and trades issues; procedures and obligations as ISO members etc. September 2005 – Suva, Fiji Further training was held in Fiji conducted by ISO and Standards New Zealand to help prepare Fiji to ascend as full members of ISO. | Use the proposed mechanism for identifying a sector or economy requiring capacity building for Standardization and deliver seminars / workshops.  Encourage the involvement within the Asia Pacific region in the development, adoption, and use of international standards over regional standards |
|--------------------------------|--|---|
|--------------------------------|--|---|

|  |  |  | Continue to encourage regulators in the Asia Pacific region to use harmonized voluntary standards as a basis for technical regulation over developing country specific technical regulations     |
|--|--|--|--|
|  |  |  | Continue to 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 / workshops.   |

|                   | Various relevant information, documents, presentations, training and communications materials maintained on www.pascnet.org  | Various relevant information, documents, presentations, training and communications materials maintained on www.pascnet.org | Various relevant information, documents, presentations, training and communications materials maintained on www.pascnet.org   | Use the proposed mechanism for identifying a sector or economy requiring capacity building for Standardization and deliver seminars / workshops. | Continue to expand<br>the transparency of<br>standards used in<br>each PASC/APEC<br>economy to<br>facilitate trade and<br>market access  |
|-------------------|--|---|---|--|--|
| KNOWLEDGE SHARING | November 2004 – China, Indonesia, the Philippines, Thailand and Vietnam: Standards Australia in conjunction with DFAT conducted capacity building workshops through the Asia Pacific region to highlight the business case for the adoption of internationally recognised Standards. |   | October / November 2006 – Wellington, NZ: Training for a Project Manager from the Papua New Guinean office of the National Institute for Standardization and Industrial Technology was held over the last week of October. Key areas addressed were an overview of the Standards and conformance infrastructure; standards process; international relationships; tips on holding international and national meetings; contents of a |  | Share information, presentations, and communication materials on PASC website of best practices in international standardization, regulator and business use of voluntary standards to achieve effective regulatory compliance with minimimum negative impact on trade |

|   |                           |  |   | Standard; and implementation plans.   |   |   |
|---|---------------------------|--|---|---|---|---|
| PAC (Accreditation of certification bodies) | CO-OPERATIVE<br>SOLUTIONS | PR Korea hosts<br>PAC Annual<br>Meetings   | Thailand hosts 10th<br>Anniversary PAC<br>meetings                              | Vietnam hosts PAC<br>Annual Meetings  | Singapore hosts<br>PAC Annual<br>Meetings                                   | Malaysia hosts<br>PAC Annual<br>Meetings  |
|   |                           | Open Forum<br>launched with<br>participation from<br>regulators, SRBs,<br>certification bodies<br>(CBs) and industry | Open Forum continues with participation from regulators, SRBs, CBs and industry | Open Forum continues with participation from regulators, SRBs, CBs and industry         | Open forum continues. PAC participated in development in APEC SRB workshop. | Open Forum/Industry Seminar by Standards Malaysia hled in conjunction with Plenary on 23 June in Kuala Lumpur, 70 delegates representing government, industry, regulators, end-users, accreditors and certification bodies attended |
|   |                           |  | PAC supports<br>establishment of<br>Asian Certification<br>Body Association     | Asian Accredited Certification Body Association (AACBF) becomes Associate Member of PAC |   |   |
|   |                           |  | PAC commits to attending one APEC SCSC meeting per year.                        | PAC Chair<br>attended APEC<br>SCSC meeting  | PAC Chair<br>attended APEC<br>SCSC meeting                                  | PAC Chair<br>attended APEC<br>SCSC/SRB<br>meetings  |
|   |                           |  |   | Survey of PAC<br>members to<br>determine priority<br>areas of support for               |   |   |

|   | APEC SCSC<br>Activities    |  |  |
|---|----------------------------|--|--|
| Members agreedevelop MoUAPLAC                 | eed to MoU with APLAC      | Implementation<br>plan developed for<br>MOU with APLAC | Worked with APLAC to implement the PAC/APLAC MoU. PAC and APLAC Chairs met on 15 October to note progress for 2008 and agree on proposed activities for 2009 |
| Iran and Pakis<br>join PAC as<br>Associate Me | Accredited                 | Attended joint<br>APMP seminar in<br>Sydney            | Dubai joined PAC as a Full Member  India, Iran and Pakistan transferred membership categories from Associate to Full Members of PAC                          |
| PAC represer attended APL meetings            | ntative PAC representative | PAC<br>representative<br>attended APLAC<br>meetings    | PAC representative<br>attended PASC,<br>APLAC and<br>APMPmeetings  |

|   |   |   | Discussions launched with Inter- American Accreditation Cooperation (IAAC) re closer cooperation (Peru and Chile are currently IAAC members) | MOU with IAAC signed and implementation plan developed  | Worked with IAAC to implement the PAC/IAAC MoU PAC Chair reported on progress at IAAC GA in September        |
|---|---|---|--|---|--|
|   |   |   | PAC commits to<br>attending SRB<br>forum in 2007   | PAC attended SRB forum in 2007  | PAC attended SRB<br>forum in 2008 and<br>provided reports to<br>other SRBs and<br>APEC SCSC                  |
|   | July 2004 – PR China, Indonesia, Republic of Korea, Mexico, Chinese Taipei sign the PAC MLA for EMS   | Malaysia signed<br>the PAC MLA for<br>EMS   | Singapore signed<br>the PAC MLA for<br>Product   | India and Philippines signed the PAC MLA for EMS and Vietnam signed the PAC MLA for QMS                                   | PR China signed<br>the PAC MLA for<br>Product bringing<br>the total to 8<br>signatures                       |
| SUPPORT A<br>IULTI-LATERAL<br>TRADING<br>SYSTEM | July 2004 – First<br>signing of the PAC<br>MLA for Product<br>Certification.<br>Signatories are<br>Australia and New<br>Zealand, Canada<br>and Mexico | PAC successfully<br>re-evaluated as a<br>continuing<br>signatory to IAF<br>MLAs for QMS,<br>EMS and Product<br>programs |  | Identifed further areas for discussion where there is a need for MLAs which would assist trade for Asia-Pacific economies | PAC members<br>agreed in principle<br>to establish MLAs<br>for FSMS, ISMS<br>and Certification of<br>Persons |
|   |   | Vietnam, Iran and<br>Pakistan applied to<br>join the PAC MLA<br>for QMS   |  | Vietnam signed<br>the PAC MLA for<br>QMS<br>China applied to<br>join the PAC MLA<br>for Product                           | China signed the PAC MLA for Product   |

| REDUCE<br>BARRIERS TO | Results of 2003<br>Survey reviewed at<br>annual meetings   | Survey of PAC Member needs with regard to possible expansion of the PAC MLA to the following: OH&S, Accreditation of Persons, HACCP/FSMS and HACCP | Results of 2005 Survey reviewed at annual meetings. Information Security Management Systems (ISMS) added to list of possible new MLA areas.     | Continued to review need for other MLAs and the status of existing MLAs.     | PAC Members<br>agreed in principle<br>to establish MLAs<br>for FSMS, ISMS<br>and Certification of<br>Persons |
|-----------------------|--|--|---|--|--|
| TRADE                 |  | PAC re-evaluated<br>as a continuing<br>signatory to IAF<br>MLAs for QMS,<br>EMS and Product<br>programs  | Discussions launched with Inter- American Accreditation Cooperation (IAAC) re closer cooperation (Peru and Chile are not currently PAC members) | Signed MOU with IAAC, implementation plan developed.                         | Worked with IAAC to implement the PAC/IAAC MoU. PAC Chair reported on progress at IAAC GA in September       |
| KNOWLEDGE<br>SHARING  | PAC Website<br>continuously<br>updated.<br>PAC Newsletter<br>published   | PAC Website<br>continuously<br>updated.<br>PAC Newsletter<br>published   | PAC Website<br>continuously<br>updated.<br>PAC Newsletter<br>published  | PAC Website and<br>CD continuously<br>updated<br>PAC Newsletter<br>published | New version of PAC website developed PAC Newsletter published PAC information letter and brochure published  |
|                       | PAC CD finalized and distributed  2003/04 – CTI33/2003T - Training for EMS certification bodies, accreditation bodies and peer | PAC CD updated<br>and distributed  April 2005 – Singapore - training<br>course on<br>implementation of<br>ISO/IEC Guide 65<br>and ISO/IEC 17011    | PAC CD updated  May 2006 – Hanoi Vietnam – 2 day workshop on Cross Frontier Accreditation and the contents of                                   | PAC DVD updated  |  |

| assessors (3  | (PAC funded)   | Accreditation   |  |   |
|---|--|---|--|---|
| components) held in various countries   |  | Assessment reports (PAC   |  |   |
| (APEC funded)   |  | funded)   |  |   |
| Jul 2004 – Seoul<br>Korea– capacity<br>building workshop<br>for experienced<br>PAC peer<br>evaluators (PAC<br>funded) | June 2005 – Hanoi<br>Vietnam – Training<br>course for<br>accreditation<br>assessors on the<br>application of<br>international<br>standards for QMS,<br>EMS and the future<br>requirements of<br>ISO/IEC 17021 for<br>both programs<br>(PAC funded) |   | July 2007<br>Singapore -<br>ISO/IEC 17021<br>Training provided in<br>conjunction with<br>Plenary (PAC<br>funded)                         | June 2008 – Kuala<br>Lumpur Malaysia –<br>Training on<br>ISO/IEC 17024<br>provided in<br>conjunction with<br>Plenary (funded by<br>PAC)   |
|   | July 2005 – Bankok<br>Thailand – training<br>of accreditatin body<br>management staff<br>and assessors in<br>ISO/IEC 17011<br>(PAC funded)   | June 2006 – Hanoi<br>Vietnam – capacity<br>building workshop<br>for experienced<br>PAC peer<br>evaluators (PAC<br>funded) | July 2007 – Singapore - Capacity building workshop for experienced PAC peer evaluators provided in conjunction with Plenary (PAC funded) | June 2008 – Kuala<br>Lumpur Malaysia –<br>Capacity building<br>workshop for<br>experienced PAC<br>peer evaluators<br>provided in<br>conjunction with<br>Plenary (PAC<br>funded) |
|   | July 2005 – Bangkok Thailand - capacity building workshop for experienced PAC peer evaluators (PAC funded)   |   | August 2007 – Bali<br>Indonesia<br>Workshop on<br>accreditation of<br>product certification<br>bodies (PAC<br>funded)                    | June 2008 – Tokyo<br>– Workshop on<br>ISO/IEC 27006<br>(PAC funded)   |
|   |  |   | Workshop on<br>ISO/IEC 27006<br>(PAC funded)   |   |

# Annex 3 SRB Activities in 5-year Action Plan for which cooperation with input from other SRBs is invited/included

Unless otherwise stated, the projects/initiatives identified below, while primarily aimed at a specific audience (normally members of the relevant SRB), are listed here for the benefit of other parties, e.g., other SRBs, in order to:

- a) inform;
- b) invite cooperation;
- c) identify synergies; and/or
- d) invite participation (normally at their own expense) of other SRBs, APEC/SCSC and other parties at annual SRB meetings.

#### **APLAC**

- APLAC workshop on accreditation of proficiency testing scheme providers,
   2009: APMP members to be invited to participate.
- APLAC lead evaluator workshop 2009: to include conduct of joint evaluations with PAC
- Annual meetings between the APLAC Chair/Secretariat and the Chairs/Secretariats of APMP and PAC to discuss matters of mutual interest in support of the MOUs concluded between APLAC and each of APMP and PAC.

### **APLMF**

- Discussion on important issues related in the metrology field with APMP to strengthen further cooperation
- All SRBs are formally invited to the annual APLMF meeting to share information and to participate in the discussions

#### **APMP**

- (As above) Annual meetings between APMP Chair/Secretariat and APLAC Chair/Secretariat to discuss matters of mutual interest in support of the APLAC-APMP MOU.
- Working with APLMF on activities of mutual interest in scientific and legal metrology

### PAC

- All SRBs are formally invited to the annual PAC Plenary to share information and to participate in the discussions, and to attend training courses offered by PAC.
- Annual meetings between PAC Chair/Secretariat and APLAC Chair/Secretariat to discuss matters of mutual interest and opportunities for cooperation in support of the APLAC-PAC MOU, which was signed in November 2006.

### **PASC**

- All SRBs are formally invited to the annual PASC plenary to share information and to participate in the discussions.
- PASC actively works with SRBs in coordinating with ABAC on agreed upon projects.
- PASC held the rotating coordinating lead of the SRBs in 2008/2009

### Annex 4 Acronyms

ABAC APEC Business Advisory Council
APEC Asia Pacific Economic Cooperation

APLAC Asia Pacific Laboratory Accreditation Cooperation

APLMF Asia Pacific Legal Metrology Forum APMP Asia-Pacific Metrology Programme

CIPM International Committee for Weights and Measures

CTI Committee on Trade and Investment

FTA Free Trade Agreement

IAF International Accreditation Forum

IEC International Electrotechnical Commission

ILAC International Laboratory Accreditation Cooperation ISO International Organization for Standardisation

ITU-T International Telecommunication Union – Standardization Sector

MAA Mutual Acceptance Arrangement
MLA Multilateral Recognition Arrangement
MRA Mutual Recognition Arrangement

OIML International Organization of Legal Metrology

PAC Pacific Accreditation Cooperation
PASC Pacific Area Standards Congress
PAC Pacific Area Standards Congress

RTA Regional Trade Agreement

SCSC Sub-Committee on Standards and Conformance (SCSC)

SIM Inter-American Metrology System

SOM Senior Officials' Meeting SRB Specialist Regional Body

TILF Trade and Investment Liberalisation Facilitation

TBT Technical Barriers to Trade UTPs Uniform Test Procedures

Additional SRB specific acronyms, including the respective SRB memberships, can be found at the respective SRB websites:

Asia Pacific Laboratory Accreditation Cooperation (APLAC)
 www.aplac.org

Asia Pacific Legal Metrology Forum (APLMF)
 www.aplmf.org

Asia-Pacific Metrology Programme (APMP)
 www.apmpweb.org

Pacific Accreditation Cooperation (PAC)
 www.apec-pac.org

Pacific Area Standards Congress (PASC)
 www.pascnet.org

# Annex 5 Participants from the SRBs in Governance positions in international standards and conformance organizations

## Asia Pacific Laboratory Accreditation Cooperation (APLAC) Members

| Member of ILAC Executive                 | Mr Terence Chan (Hong Kong China) as APLAC Chair |
|--|--|
| Chair ILAC Arrangement Management        | Dr WL Richards (New Zealand)                     |
| Committee; Member of ILAC Executive      |  |
| Chair ILAC Accreditation Issues          | Ms Regina Robertson (Australia)                  |
| Committee; Member of ILAC Executive      |  |
| Chair ILAC Proficiency Testing           | Dr R Wilson (Canada)                             |
| Consultative Group; Member of ILAC       |  |
| Executive                                |  |
| ILAC liaison to BIPM                     | Mr Yoshinobu Uematsu (Japan)                     |
| Vice Chair ILAC                          | Mr Peter Unger (USA)                             |
| Joint Chair of Joint Inspection Group of | Mr Geoffrey Hallam (New Zealand)                 |
| ILAC and IAF                             |  |

## **Asia Pacific Legal Metrology Forum (APLMF) Members**

| President, CIML           | Mr Alan Johnson (Canada)             |
|---------------------------|--------------------------------------|
| Vice-President, CIML      | Dr Grahame Harvey (Australia)        |
| CIML Presidential Council | Prof Lev Issaev (Russian Federation) |
| CIML Presidential Council | Mr Pu Changcheng (China)             |
| CIML Presidential Council | Dr Yukinobu Miki (Japan)             |
| CIML Presidential Council | Dr Charles Ehrlich (USA)             |

## Asia-Pacific Metrology Programme (APMP) Members<sup>1</sup>

| Vice-President, CIPM & President, CCEM | Dr Barry Inglis (Australia)          |
|--|--------------------------------------|
| Member, CIPM & President, CCM          | Dr M Tanaka (Japan)                  |
| Member, CIPM                           | Prof Gao Jie (China)                 |
| Member, CIPM                           | Dr Kwang Hwa Chung (Korea)           |
| Member, CIPM                           | Prof Lev Issaev (Russian Federation) |

## **Pacific Accreditation Cooperation (PAC) Members**

| Vice-Chair IAF, Member of IAF Board.<br>Member, Joint Working Group -<br>ISO/IAF/ILAC | Ms Elva Nilsen (Canada)    |
|---|----------------------------|
| Chair IAF MLA Committee   | Mr. Xiao Jianhua (China)   |
| Treasurer IAF   | Mr. Kevin Breitzmann (USA) |
| Chair IAF Technical Committee   | Mr. Randy Dougherty (USA)  |

<sup>&</sup>lt;sup>1</sup> NB: Dr Jim McLaren from Canada (SIM APEC Economy) is also a Vice-President of the CIPM and Dr Willie May from USA and Dr Hector Nava-Jaimes from Mexico (also SIM APEC economies) are Members of the CIPM.

| Joint Chair IAF / ILAC Joint Working group | Ms Joan Brough-Kerrebyn (Canada) |
|--|----------------------------------|
| on Training                                |                                  |
| Vice Chair IAF Technical Committee         |                                  |

## **`Pacific Area Standards Congress (PASC) Members**

| ISO – International Organization for Standard                             | dardization                           |
|---|---------------------------------------|
| ISO President   | Dr Alan Morrison (Australia)          |
| ISO Vice President - Policy   | Dr George Arnold (USA)                |
| ISO Council Members (of 18)   | Mr S Joe Bhatia (USA)                 |
|   | Mr Sadao Takeda (Japan)               |
|   | Mr. Ji Zhengkun (China, P.R.)         |
|   | Dr. Bambang Setiadi (Indonesia)       |
|   | Mr. Sharad Gupta (India)              |
| ISO Technical Management Board (of 12)                                    | Mr Steven Cornish (USA)               |
| (01 12)   | Mr Michel Bourassa (Canada)           |
|   | Mr Juichi Nagano (Japan)              |
|   | Ms Li Yubing (China, P.R.)            |
|   | Mr Geoff Visser (South Africa)        |
|   | Mr. Rakesh Verma (India)              |
|   | Dr. Geewon Chung (Korea, Republic of) |
| IEC – International Electrotechnical Com                                  | mission                               |
| IEC President   | Mr Jacques Regis (Canada)             |
| IEC Vice President – Technical Management                                 | Mr Frank Kitzantides (USA)            |
| IEC Vice President – Conformity   | Dr Hiromichi Fujisawa (Japan)         |
| Assessment  | Jc sjicaa (capa)                      |
| IEC Standardization Management Board (of 15) - (representing National     | Mr Mark Amos (Australia)              |
| Committees)   |                                       |
|   | Mr Ed Tymofichuk (Canada)             |
|   | Mr Shuangqiu Liu (China, P.R.)        |
|   | Mr Setsuo Harada (Japan)              |
|   | Mr Myoung-Jae Shin (Korea, Rep.of)    |
|   | Mr Robert A. Williams (USA)           |
| IEC Council Board (of 15)   | Mr James E. Matthews III (USA)        |
|   | Dr Shigenori Yagi (Japan)             |
|   | Mr Zhirong Ge (China, P.R.)           |
|   | Dr Doug-young Joo (Korea, Rep of)     |
|   | Mr Rafael Nava (Mexico)               |
|   | Ms Else Shepherd (Australia)          |
|   | Dr Greg Stone (Canada)                |
| IEC Conformity Assessment Board (of 12) Representing National Committees) | Mr Ron Collis (Australia)             |
| . ,   | Ms Mei Lu (China)                     |
|   | Mr Soo-Hyun Paik (Korea, Rep of)      |
|   | Mr Richard L Pescatore (USA)          |
|   | Mr Toshiyuki Kajiya (Japan)           |
| ·   | 1                                     |

| IEC Market Strategy Board 15 members | Dr Peter Bocko (Corning)                |
|--------------------------------------|---|
|                                      | Mr Sujeet Chand (Rockwell Automation)   |
|                                      | Dr Donald R Deutsch (Oracle)            |
|                                      | Mr Leenard Jonsson (Eaton Electrical)   |
|                                      | Mr Yoshiaki Kushiki (Matsushita)        |
|                                      | Mr Akio Nakamura (Tokyo Electric)       |
|                                      | Dr Ellie Saheb (Hyro-Quebec)            |
|                                      | Ms Gitte Schjotz (Underwriters Labs.)   |
|                                      | Mr Yinbiao Shu (State Grid – China)     |
|                                      | Prof Takashi Tomita (Sharp Corporation) |