

APSN 10th Plenary Meeting Chair's Summary
28-29 August 2019
Bali, Indonesia

1. The tenth plenary meeting of the Asia-Pacific Safeguards Network (APSN) was held on 28-29 August 2019 in Bali, Indonesia, hosted by Government of Indonesia and organized by Nuclear Energy Regulatory Agency, BAPETEN. The plenary was attended by 36 representatives from 16 countries, including representatives from the International Atomic Energy Agency (IAEA) and European Safeguards Research and Development Association (ESARDA).
2. Welcome Speech was delivered by Mr. Febrian Alphyanto Ruddyard, Director General for Multilateral Affairs, Ministry of Foreign Affairs (MOFA). Mr. Febrian Alphyanto Ruddyard gave a speech on:
 - a) It is important to continue to work in order to maintain and strengthen the existing safeguards systems, one of them including through the existence of APSN
 - b) A few related things to support the strengthening of sustainable and effective safeguards system are as follows:
 - Reinvigorating the political will: regional forum could become a good example of the importance of political will in building mutual trust.
 - Collaboration: One clear example that we can find in the APSN is the establishment of five working groups which broaden the scope of collaboration, not only discussing on safeguards, but also the relations between safeguards and security.
 - Expand the network: We should invite more countries in the region to join the network, not only to ensure that safeguards activities in the region are conducted to IAEA standards, but also to create more opportunities of sharing best practices and lessons-learned as well as capacity building programs
3. Opening Remarks were delivered by Prof. Jazi Eko Istiyanto, APSN Chair and Chairman of Nuclear Energy Regulatory Agency, Bapeten. Prof. Jazi Eko Istiyanto gave an opening remarks on:
 - a) This year's meeting was an important moment to commemorate 10 years establishment of APSN.
 - b) APSN is delivering benefits to participants through information exchange, sharing of best practice, mutual support, access to experts and regional focus of training. Importantly, APSN is becoming a vehicle of choice for regional engagement.
 - c) Indonesia is ready to support the network to sustain its focus on the improvement of human resources and on strengthening the national and regulatory infrastructure for nuclear safeguards implementation, thus assuring the peaceful uses of nuclear energy in our region.
4. Speech from Mr. Massimo Aparo, the IAEA Deputy Director General and Head of the Department of Safeguards:
 - a) Emphasize of that safeguards system is always based on cooperation.
 - b) Greatly appreciate of the value of State safeguards authorities cooperating and supporting each other. The Asia Pacific Safeguards Network blazing this trail.

- c) Safeguards activities demand shows no sign of decreasing. To meet that demand, its important to encourage the exchange of good practice and facilitate networking between stakeholders. APSN has shown a way to meet the safeguards demand activities that encourage the exchange of good practice and facilitate networking between stakeholders.
5. Thailand gave a presentation on Status of ASEANTOM in 2019 that explain past activities in 2018, activities on 2019, future plan on 2020 - 2021 and also cooperation activities with IAEA, EU and US-DOE .
6. Dr Rob Floyd, Director General ASNO, reflected on the participation in APSN meetings over the past 10 years and the key achievements of APSN. In total, there are have been 353 participants in APSN meetings over the past 10 years, representing 205 different individuals. APSN's outputs have included annual working group and plenary meetings for information exchange, needs and training providers surveys, an INFCIRC on Fundamentals and Good Practices of Regulatory Authorities, an MOU with ESARDA, National Legislation Implementation Kit, key role in the IAEA Symposiums (2014, 2018) and several co-badged workshops. Dr Floyd observed that probably the most important achievement in the past 10 years has been to establish a community of safeguards professionals who are friends, a trusted community that allows and promotes openness, frankness, mutual support.
7. APSN members appreciated the national statements provided by countries on highlighting the achievements, benefits of being a member of APSN, and in light of the 10th year anniversary would be a great opportunity for countries to express and share expectations for the future APSN.
8. APSN members agreed to establish a small group led by the APSN chair to:
 - a) Identify and evaluate possible sources of funds and mechanisms for receiving funds to ensure a sustainable funding base for future APSN meetings and other specific activities;
 - b) Seek agreement of APSN members to the above; and
 - c) Prepare and submit funding proposal(s) to secure funding support.
9. Working Groups provided an update on activities to date and future plans for the next 12 months (details in the attached Summary of Action Items).

■ **Safeguards Infrastructure, Implementation and Awareness-Raising (WG1):**

Working Group 1 facilitated an information-sharing session among APSN members to hear the IAEA's perspectives on current and future challenges in safeguards, and to share experiences on their current challenges. WG1 began with a presentation by the IAEA looking back and forwards 10 years on how safeguards has developed, and possible future challenges, followed Q&A by APSN participants. The second session was on nuclear accountancy and LOF challenges. This session began with an IAEA presentation on some specific common mistakes in accountancy reports that can be time-consuming to resolve. The session closed with a presentation by Thailand on challenges with LOF management and accountancy, followed by Q&A to share experiences.

■ **Capacity Building (WG2):**

Japan as the facilitator of Working Group 2 reported on the progress of monitoring and review of the Action Items on capacity building. In this regard progress has been made by some APSN Member States in establishing links for reporting their safeguards related training activities and identifying current challenges such as lack of structured programs. Member States are encouraged to update their respective information regularly for better use of the information and coordination among Member States.

The JAEA/ISCN for WG2 presented the objective and content of the post-training evaluation survey questionnaire for an effectiveness evaluation of the training activities. The session discussed how best to apply the questionnaire by Member States and practical usage including possible outcomes. WG2 introduced the trainers' database-directory which contains information about prospective trainers in order to provide and facilitate collaborative support among Member States. Responses from Member States are positive and WG2 would encourage for providing more information about prospective trainers. WG2 will continue to monitor the progress of these actions.

WG2 also discussed additional areas of interest for future activities: Supplemental use of E-learning modules, Optimization of training programs, Information exchange with universities. Based on these discussions, new actions for capacity building will be monitored.

In the sharing of the capacity building experiences, Thailand made a presentation regarding their safeguards training and outreach program focusing on capacity building and challenges. Vietnam presented their experience on safeguards implementation and cooperation with international partners and the IAEA. ESARDA shared their unique multi-national activities and discussed their extensive training experiences. These presentations and subsequent discussions provided valuable information and practical ideas for the APSN Member States to apply in their capacity building programs.

■ **IT support, communications and information (WG3):**

United States facilitated the discussion on methods for outreach, communication, and getting support for APSN. Working Group 3 maintains the APSN website, examines relevant information technology issues, and develops APSN communication and outreach strategies. WG2 is a cross-cutting group that supports all Members and all other Working Groups in their activities.

In light of the 10th year anniversary, WG3 reviewed accomplishments over the past decade, including:

- a) Developed APSN logo and website: Public and Members Only Sites
- b) Supported maintenance of the APSN website
- c) Developed materials in support of APSN events: brochures, informational sheets, banners, commemorative coins
- d) Provided support to showcase APSN activities at the IAEA Safeguards Symposium in 2014 and 2018
- e) Sought opportunities to raise APSN visibility through APSN-sponsored workshops and publications involving APSN member countries

WG3 also noted the forthcoming challenges of hosting the APSN website on the PNNL server, due to changes in the platform and increasing government requirements. APSN intends to transition the website to a new platform by the end of 2019. Options are being explored and could include the IAEA Connect Platform or other platforms. Other media tools will be identified, depending on what objectives the organizations would like to achieve (e.g. more visibility, more information sharing, outreach to potential funders, etc.).

WG3 also called on APSN Members to think about the new products and services to support organizational activities in the future. The facilitators encouraged the audience to use sticky notes to generate ideas and put them on the back wall for the remainder of the Plenary.

■ **Safeguards legislation (WG4):**

Indonesia introduced the purpose of WG4 and outlined the session. Indonesia conveyed that WG4 has started focus on SBD by drafting an additional provision on SLK to support SBD. The WG4 session also invited IAEA to present on Safeguards Consideration for Research Reactor and LWR and also Japan to present on experiences on Safeguards by Design in Japan. In the preparation of SBD, one important element is the use of benchmarks from other facilities, therefore BAPETEN proposes to create a table list of the types of nuclear installations, location of nuclear materials (fresh fuel storage, cores, spent fuel storage), tools used, and working instruction. It is expected that the list could provide a clear picture for APSN members in implementing SBD appropriately, effectively and efficiently. The table may be an attachment of the SLK. In the next APSN meeting, WG4 will invite ROK to share experiences in SBD implementation and Japan to share their experiences in safeguards Implementation during decommissioning at research and development facilities including Prototype Fast Breeder Reactor MONJU. Australia offered to present on SBD for Intermediate Level Waste (ILW) and USA also offered to present on Sharing experience implementation of SBD engagement with vendor.

■ **Physical protection in support of strengthening safeguards (WG5):**

ROK facilitated and provided presentation on the result of last year's meeting, in the presentation ROK shared 2 case of synergy between safeguards and security/physical protection. Beside that, Canada and Malaysia also delivered a presentation regarding to the experiences of synergy between safeguards and security in their countries.

The facilitator revealed that next year is on the cyber security to protecting information regarding safeguards topic.

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Summary of Action Items

Action Items	Actioning Country/Group	Nominal Date
WG1: Safeguards Infrastructure, implementation and awareness-raising		
<ul style="list-style-type: none"> Work with APSN members and IAEA to design and prepare activities for the 2020 APSN meeting on sharing safeguards experiences, targeted on APSN member needs. 	All Members	Report on 11 th APSN
WG2: Capacity Building		
<ul style="list-style-type: none"> Develop capacity building plans (training programs) and share them with APSN Members. Monitor progress and outcomes. 	All Members	Report on 11 th APSN
<ul style="list-style-type: none"> Conduct Post Training Evaluation Survey Questionnaire and share the experience for improvement 	Japan	Report on 11 th APSN
<ul style="list-style-type: none"> Join the APSN Trainers' Pool Database-Directory by providing potential trainers and sharing the capacity among Members 	All Members	Report on 11 th APSN
<ul style="list-style-type: none"> Additional Areas of interest : <ol style="list-style-type: none"> Supplemental use of E-Learning Optimization of Training Programs Information exchange with universities on non-proliferation/safeguards studies 	All Members	Report on 11 th APSN
<ul style="list-style-type: none"> Prepares a new survey in 2020 for APSN members on needs analysis 	All members	Report on 11 th APSN

Action Items	Actioning Country/Group	Nominal Date
WG3: IT support, communications and information		
<ul style="list-style-type: none"> • Upload all the materials from the 10th APSN Annual Meeting • Plan to develop an informative APSN website in order to promote APSN to be easily recognized by the public, yet by putting forward the security of data and information (cyber security) as a priority. • All Working Groups to submit their activities on Members Only 	<p>APSN Secretariat (INA) and All members</p> <p>All Members</p> <p>All Members</p>	<p>Sept 30, 2019</p> <p>Report on 11th APSN</p> <p>As needed</p>
WG4: Safeguards Legislation		
<ul style="list-style-type: none"> • Draft of additional provision on SLK to support SBD • Sharing experiences on SBD Implementation • Sharing experiences in safeguards implementation during decommissioning at research and development facilities including Prototype Fast Breeder Reactor MONJU • Sharing experiences implementation of SBD for Intermediate Level Waste experience in Australia • Sharing experience implementation of SBD engagement with vendor in US 	<p>All Member States</p> <p>Korea</p> <p>Japan</p> <p>Australia</p> <p>USA</p>	<p>Report on 11th APSN</p> <p>Report on 11th APSN</p> <p>Report on 11th APSN</p> <p>Report on 12th APSN</p> <p>Report on 12th APSN</p>
WG5: Physical Protection in Support of Strengthening Safeguards		
<ul style="list-style-type: none"> • Introducing the experience on the information security regarding safeguards • Discuss on how to facilitate WG 5 	<p>IAEA, RoK</p> <p>All Member States</p>	<p>Report on 11th APSN</p> <p>Report on 11th APSN</p>

