



## South East Asia Regional Review Meeting on Radioactive Source Security



Bali, Indonesia, 22 to 24 July 2008  
hosted by Badan Pengawas Tenaga Nuklir (BAPETEN)



in cooperation with the

Australian Nuclear Science and Technology Organisation's  
Regional Security of Radioactive Sources Project,

the United States Department of Energy National Nuclear  
Security Administration's Global Threat Reduction Program

and the

International Atomic Energy Agency



### REPORT

1. BAPETEN hosted a meeting of representatives of Brunei Darussalam, Cambodia, Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam to discuss the implementation of the South East Asia Radiological Security Partnership (RRSP) with the Partnership's sponsors, the Australian Nuclear Science and Technology Organisation (ANSTO), the United States Department of Energy's National Nuclear Security Administration (NNSA) and the International Atomic Energy Agency (IAEA). Observers from the Australian Radiation Protection and Nuclear Safety Agency and the National Radiation Laboratory of New Zealand also took part. A list of participants is [Attachment A](#). The objectives of the meeting were:

- To review the status of radioactive source security arrangements, including regulatory arrangements, of each country within the RRSP, consistent with subscribing to and implementing the IAEA Code of Conduct on the Safety and Security of Radioactive Sources (CoC);
- To discuss and identify common issues in developing and implementing radioactive source security arrangements, with a view to promoting regional cooperation;
- To discuss and identify priorities, resources and actions; and
- To agree on regional and national activities to enhance radioactive source security.

2. The agenda of the meeting is [Attachment B](#). Following introductory presentations on the IAEA's activities relevant to the security of sources, the Code of Conduct and the regional partnership, the representatives of the nine participating states gave national presentations on their source security activities. Those presentations discussed:

- a) national radioactive sources' practices, including for sources in disuse or storage (particularly category 1, 2 and 3 sources);
- b) national systems, infrastructure and resources for regulation of safety and security;
- c) status of national programs regarding implementation of the IAEA Code of Conduct on the Safety and Security of Radioactive Sources (including its Supplementary Guidance on the Import and Export of Radioactive Sources);
- d) national follow-up and implementation of any recommendations from relevant IAEA advisory missions or services (e.g. RaSSIA, InSServ);
- e) development, implementation and outcomes of any activities under the ANSTO RSRS or US NNSA programs for radioactive source security;
- f) status, issues and/or further work in topical areas such as: (i) regulations, regulatory assessment and inspection, source inventory; (ii) physical protection equipment, methods, assessment, upgrades and maintenance; (iii) security management, including security plans and procedures; (iv) radiation detection equipment, conduct of orphan source searches and

emergency preparedness; and (v) training and development, including train-the-trainer, on any of the above topics; and

g) suggestions and recommendations for future implementation and cooperation.

3. Following the presentation of national reports, there were thematic presentations and discussions. The first theme discussed was Regulatory Infrastructure. It was noted that regulatory infrastructure is an essential precondition for the improvement of security, particularly in terms of sustainability. A one-off improvement in security will not be sustained without a proper regulatory basis. Regulation also demonstrates to the international and domestic communities that governments are seriously addressing the issue, enables regulators to encourage good security performance and establishes the role of nuclear regulators vis-à-vis that of security agencies. Indonesia, Vietnam and the Philippines had developed regulations through RRSP cooperation. The main tasks in establishing or strengthening source security regulations include establishing the necessary foundation, developing a regulatory framework, drafting the regulations and implementation. Source categorisation is an essential component of source security, as it enables the adoption of an informed risk management approach.

4. The second theme discussed was physical protection. It was emphasised that all parts of a security program are equally important – people, equipment and plans/procedures. The installation of equipment is relatively straightforward. Managing and keeping programs running correctly and sustainably requires the building of capacity in-country, which requires sustained investment in people and in planning. Although a competent security contractor is essential, they often have weaknesses in procedures and training, and the role of the national regulator in ensuring sustainability of security upgrades is essential. Security contractors in countries have become engaged in delivering equipment, maintenance and training programs at the local level. Indonesia noted that whilst security upgrades for fixed Category 1 sources had been undertaken in cooperation with the RRSP, establishing practicable security standards for mobile sources was an ongoing challenge.

5. The third theme discussed was operational, management and oversight considerations, including:

- Implementation of source security requirements at the operational level;
- Development of regulatory compliance assessment and inspection for source security;
- Development of necessary specific expertise and related training programs
- Integration with radiation safety and regulatory practices

6. The final theme discussed was training. Security entails a different way of thinking than radiation safety – protecting sources from people rather than protecting people from sources. Not only do radiation protection people (including both regulators and users) have to learn about security, security people also need to learn about radiation protection. In order for security to be sustainable, a train-the-trainer approach and the development of appropriate training modules are necessary. Significant training in a range of areas, including physical protection, development of a regulatory framework, orphan source detection and emergency response, has been provided to a number of countries under the RRSP. The efficacy of that training has been tested by way of practical exercises, including orphan source searches and emergency response exercises.

## **Conclusions**

7. Participants emphasised the importance of a cooperative approach within the region and also with the US NNSA, ANSTO RSRS and IAEA programs. That cooperation is improving local and regional capabilities to implement and sustain security measures. Development of legislation and regulations, assessment and inspection practices to include source security and train of trainers were important features of the cooperation to date. The regional partnerships which had

been developed were vital for the success of the work and were viewed as complementary to, and in support of, the current IAEA programs. In that regard, participants expressed their appreciation to the partnership sponsors and their support for the continuation of the ANSTO RSRS and US NNSA programs, and expressed concern that their premature cessation might adversely affect the sustainability of the achievements to date.

8. The assistance provided by the RRSP was greatly appreciated – particularly by Indonesia, the Philippines and Vietnam, where the cooperation is most mature and extensive. The practical assistance, which is generally provided on an individually tailored basis to each state, built on national source security plans which identified particular needs, thus enabling assistance to be most effectively focused. The partnership has proved highly effective in strengthening those states' capacity to manage radioactive sources securely – and has formed an important part of their regulatory body and users' staff's professional development. The fact that the assistance programs are individually tailored means that they can be adapted to local circumstances – a vital factor in ensuring their effectiveness and sustainability.

9. The use of milestones or performance indicators to measure the implementation of each state's program is important. The need to address source security in addition to existing roles in relation to radiation protection and in some cases nuclear safety constituted an additional responsibility – a factor of which the RRSP was conscious.

10. The regulatory infrastructure of many countries in the region has been upgraded in recent years. However, the availability of sufficient resources to carry out the range of necessary regulatory activities (legislative drafting, licensing, inspection, enforcement, emergency response) over the long term is a concern in some countries. In that regard, cooperation with neighbouring states might assist. For example, it was suggested that, due to geographical proximity, Malaysia might be able to cooperate with Brunei on emergency preparedness and response matters. Cambodia requires extensive international and regional assistance to develop their radiation safety and security infrastructure.

11. Some states noted that, although the regulatory body was well aware of the need to update legislation and regulations to take account of recent international developments in relation to the safety and security of sources, it had proved more difficult to persuade governments and parliaments that the issue deserved priority. It was noted that, where legislation had not been amended, creative approaches to utilising existing authority – particularly the addition of security-specific licence conditions – had been adopted.

12. The importance of close cooperation between regulatory bodies and other relevant authorities, particularly those responsible for security, was recalled. It would be helpful if national security authorities could be sensitised to the importance of nuclear and radiological security, particularly at major public events, which would further contribute to the sustainability of nuclear security programs. A regional workshop involving security authorities, with the participation of regulatory bodies, might be helpful in that regard. It was noted that the IAEA had organised similar workshops in the past.

13. Sustainability of the enhanced security measures is vital. A one-off installation of security devices is very unlikely to deliver a sustained improvement in security. Ultimately, states benefiting from the RRSP would have to be able to continue to regulate and implement security effectively after the cessation of the assistance program. In order to develop that ability, and acknowledging capacity constraints on the part of both those delivering the assistance and those benefiting from it, a sustained period of engagement is necessary. The delivery of the program can best be measured by way of the achievement of agreed milestones.

14. A number of states noted that they were facing problems relating to the management of disused sources, particularly legacy sources. In many countries, the preferred management route for such sources (apart from Ir-192 sources, which can be stored for decay over a relatively short period) is return to the manufacturer, which can be made a condition of licensing their original import. However, there are instances – particularly with legacy sources - where the manufacturer is not known, or has gone out of business. Requiring licensees to retain disused and unwanted sources indefinitely – a regulatory requirement in some states – posed continuing safety and security risks. This problem has been raised in IAEA information exchange meetings under the Code of Conduct and in this meeting.

15. It was suggested that exporting states, or other developed countries, should take the sources. However, some exporting states have legislation in place which effectively prevents return of disused sources to their manufacturer. Many states (including the USA and Australia) have legislation which makes it very difficult for them to receive and store such “foreign” disused radioactive sources. The Code of Conduct notes the responsibility of states for ensuring the safety and security of sources under their jurisdiction throughout their life cycle. That responsibility can best be exercised by way of the creation of a national source store, as has been done in Indonesia (where BATAN manages orphan or vulnerable sources declared as radioactive waste by BAPETEN) and the Philippines. However, such a store requires an ongoing resource commitment, not least in terms of security, and may therefore not be a practical outcome for resource-poor countries with very few high-risk sources. The Chairman noted that while it was intended that this matter be discussed at the 2010 Code of Conduct information exchange meeting, it might be worthwhile organising a separate international meeting on it before that time.

16. External peer review under the Partnership had assisted states in assessing their progress against milestones. In future, that voluntary peer review could be extended to include other states participating in the partnership, if requested. In addition, States in other regions could benefit from the experience of the RRSP, and the IAEA was asked to take the lessons learned from the implementation of the RRSP into account when developing similar partnerships in those regions and when revising the Model Regulations.

### **Next Steps**

17. In considering the continuation of the partnership, participants expressed the view that:
- a) Cooperation with those states where cooperation is mature should be continued, with an emphasis on sustainability;
  - b) Cooperation with other states in the region should be encouraged and/or expanded, as requested and insofar as resources permit;
  - c) The partnership activities should be expanded to cover other issues such as management of unaccounted orphan sources and transport security;
  - d) Appropriate bilateral and other multilateral cooperation (such as under the aegis of ASEAN) within the region should be encouraged;
  - e) The IAEA has a role in ensuring that EU funding being made available to ASEAN Member States under the fourth cycle of their Strategy against Proliferation of Weapons of Mass Destruction can complement, rather than duplicate, the regional partnership activities; and
  - f) A similar review meeting should be convened in 18 – 24 months.

**Regional Radiological Security Partnership**  
**Review Meeting on Radioactive Source Security**  
**Bali, Indonesia, 22-24 July 2008**

No.	COUNTRY / ORGANIZATION	PARTICIPANTS			
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## Attachment A

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## South East Asia Regional Review Meeting on Radioactive Source Security

Tuesday 22 July to Thursday 24 July 2008

hosted by Badan Pengawas Tenaga Nuklir (BAPETEN)

in cooperation with the

Australian Nuclear Science and Technology Organisation's  
Regional Security of Radioactive Sources Project,

the United States Department of Energy National Nuclear  
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### PROGRAM

<b>Monday, 21 July 17.00-18.00</b> Registration		
<b>Tuesday 22 July</b>		
8.00	Registration	
8:30	Welcome and Introduction	BAPETEN-Mr. Guritno Lokollo
8.35	Opening remarks	BAPETEN Chairman-Mr. As Natio Lasman
8:50	Introductory remarks from cooperating or sponsoring agencies	IAEA - Ms Sophia Miaw ANSTO – Mr Allan Murray US NNSA - Ms Sarah Dickerson
9:00	Guest Speech	Guest Speaker
9:15	Coffee Break	
9:45	<b>International Source Security Programs</b> Chair: Mr Suhartono Zahir	
	Global Regime for Security of Radioactive Sources: International Recommendations and Requirements	Ms Sophia Miaw
	IAEA Code of Conduct, including Status and Implementation	Mr Steve McIntosh
	Australian Regional Security of Radioactive Sources Project	Mr Allan Murray
	US NNSA International Programs	Mr Fred Morris
10:45	<b>National Presentations or Remarks on Source Security Activities</b> Chair: Dr Alumanda dela Rosa, Philippines	
	Brunei Darussalem	Ms OiLing Voon
	Cambodia	Mr Victor Jona
11:15	Indonesia	Ms Noviyanti Noor
	Malaysia	Mr Mohd. Pauzi Mohd. Sobari
	Myanmar	Ms Cho Thu Thu Zaw
12:30	<i>Lunch break</i>	
13:30	<b>National Presentations or Remarks on Source Security Activities (continued)</b> Chair: Mr Raja Abdul Aziz Raja Adnan, Malaysia	
	Papua New Guinea	Dr Gary Ouu
	Philippines	Dr Alumanda dela Rosa

## Attachment B

	Singapore	Mr Phua Tan Tee
	Thailand	Mr Chouvana Rodthongkom
	Vietnam	Mr Dang Thanh Luong
15:00	<i>Afternoon break</i>	
15:30	Review of issues arising	Chair: Mr Steve McIntosh
16:30	Close	
<b>Wednesday 23 July</b>		
9:00	<b>Themes and Lessons Learned</b> Co-chairs: Ms Sarah Dickerson and Ms Sophia Miaw	
9:15	Regulatory Infrastructure	Mr Fred Morris with BAPETEN, PNRI, VARANSAC
10:00	Physical Protection	Mr Greg Herdes with BAPETEN, PNRI, VARANSAC
10:45	<i>Morning break</i>	
11:00	Safety and Security Operations, Management and Oversight	Mr Allan Murray with BAPETEN, VARANSAC, PNRI
11:45	Orphan Source Searches, Emergency Preparedness and Related Training	Mr Geoff Howard with PNRI, BAPETEN
12:30	<i>Lunch break</i>	
13:30	Discussion on all themes and issues arising	Co-chairs: Mr Steve McIntosh, Australia and Suhartono Zahir, Indonesia
14:30	<i>Afternoon break</i>	
16:00	Review of possible actions or recommendations from issues arising	Co-chairs: Mr Steve McIntosh, Australia and Dr Alumanda dela Rosa, Philippines
17:00	Close	
19:00	Transport to Hospitality Dinner	Jimbaran
<b>Thursday 24 July</b>		
9:00	Discuss and review of actions or recommendations continued	Chair: Mr Steve McIntosh, Australia
10:30	<i>Morning break</i>	
10:45	Consolidate discussion of matters for further action or recommendations	Chair: Mr Steve McIntosh, Australia
12:30	<i>Lunch break</i>	
13:30	Develop Review Meeting Report	Chair: Mr Steve McIntosh, Australia
15:00	<i>Afternoon break</i>	
15:30	Presentation of the Report of Findings of the Review Meeting	Chair: Mr Steve McIntosh, Australia
16:00	Official Close	BAPETEN Chairman - Dr As Natio Lasman
16:30	Depart	