



World Institute for  
Nuclear Security

# **Regional Workshop on Ensuring the Resilience and Sustainability of Radioactive Source Security**

**Vienna, Austria**

**13–14 February 2019**



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# Regional Workshop on Ensuring the Resilience and Sustainability of Radioactive Source Security

**DAY 1**

**13 February 2019**



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# OPENING SESSION

# Practicalities

- Mobile phones off or on silent please.
- Please let me know if you want to speak
- Be here, not on the internet!
- Keep to the timetable, and be ready to start after breaks and lunch
- Take part, ask, share, be useful to others
- If you speak to people about this workshop, do not identify who said what.

# Your Expectations (Extract)

- Sharing of good practices between countries, especially countries with small amount of High Activity Sources
- To learn how to promote effectiveness and sustainability through regulations, inspections, and coordination with response agencies
- To share ideas and strengthen regional cooperation
- To establish new expert contacts/Networking
- To learn and be informed about best practices for the security of radioactive waste and sources, and for communicating among State Agencies
- To learn how to create a regulatory framework to minimise the risk of radiological consequences of radioactive sources in a sustainable way while recognising the benefits of its use.

# Introduction and Expectations

1. Please introduce yourself at the your tables (Name, Organisation / Job Function)
2. Please discuss your expectations of this workshop at your tables for the next few minutes.
3. I will then ask you to share some of these with me.

# Discussion

## **Assessing the current situation, success areas and challenges**

- What are the key elements of a national regime for the security of radioactive sources?
- What's the relationship between stakeholders who design or influence the design of security regulations? What could be improved?
- How effective is the role of international stakeholders, such as the IAEA, in the development of a sustainable regime?
- What makes your regime sustainable?

# COFFEE BREAK





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# **SESSION 1**

## **DEVELOPING A ROBUST NATIONAL REGIME**

# Sustainability Indicators

- Do we have regulations in place that establish requirements for radioactive source security?
- Do our regulatory requirements adequately address the security of sources from cradle to grave?
- Has a source registry been created and is there a periodic inventory of sources by the licensees?
- Have we conducted a comprehensive threat assessment and communicated it to relevant stakeholders?

# Panel Discussion

- What kind of legal basis is needed and what type of resources are necessary?
- What issues are there in regulating across different practices?
- What resources and challenges are there in establishing a source registry?

# Discussion

Identify and discuss the roles and responsibilities of regulators in promoting site-level sustainability from cradle to grave.

- How does this happen?
- What works well?
- What else needs to happen?

# LUNCH

# **SESSION 2**

# **SECURITY INSPECTIONS PLANNING**

# Sustainability Indicators

- Has a systematic security inspection programme been established and implemented?
- Are inspectors familiar with key aspects of security inspections? Are new staff trained in the security inspections process?
- Are inspectors empowered to conduct security inspections and enforce findings?
- Is there a mechanism in place to consolidate lessons learned from inspections and continuously improve the inspection regime?

# Table Discussion

## Identifying best practices for inspecting security arrangements and enforcing regulatory requirements

1. How was a systematic security inspection programme established and implemented?
  2. What key aspects of security inspections are inspectors familiar with? How are new staff trained in the security inspections process?
  3. How are inspectors empowered to conduct security inspections and enforce findings?
  4. What is the mechanism in place to consolidate lessons learned from inspections and continuously improve the inspection regime?
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# **SESSION 3**

## **SECURITY IN THE TRANSPORT OF RADIOACTIVE SOURCES**

# Sustainability Indicators

- Are there transportation security regulations in place?
- Do the regulations include requirements for transport security plans?
- Do the regulations include requirements for tracking and monitoring mechanisms?
- Are transportation security plans and procedures developed and implemented?

# Panel Discussion

- Lessons along the supply chain: how is transport security different between producer and receiver, than say between receiver and disposal? What are the different vulnerabilities and how are these addressed? What is the weakest point?
- How does the mode of transport impact security?
- What are the issues with cross border movements? How are these addressed?

# COFFEE BREAK

# Carousel Discussion

1. List the key stakeholders involved in transport security and their roles. Discuss what works and what needs improving.
2. List the aspects to consider in a transport security plan (such as people, procedures, processes, materials, resources, etc.). Discuss what works in the review and approval of security plans.
3. List examples of transport security regulations that could be more performance-based and which should be more prescriptive. Discuss how the balance between both is affected by local politics, culture, resources etc.
4. Discuss the role of exercises in evaluating the performance of security measures during transport. List ways of promoting a better engagement by law enforcement agencies.
5. Discuss why the tracking and monitoring of radioactive material is important and list barriers to implementation.

# Day 2

- Engaging Law Enforcement Agencies and Developing National Response Plans
- Effectively Managing Disused Sources
- Building Competencies
- The Way Forward: Ensuring Security Effectiveness and Sustainability

# COCKTAIL RECEPTION



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**DAY 2**

**14 February 2019**





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# **SESSION 4**

## **ENGAGING LAW ENFORCEMENT AGENCIES AND DEVELOPING NATIONAL RESPONSE PLANS**

# Sustainability Indicators

- Has a national-level response engagement plan been established?
- Have the roles, responsibilities and actions of all law enforcement agencies been clearly identified?
- Has the response engagement plan been practiced with all key stakeholders?

# Discussion

## 1) National response plan

What are the key steps leading to an effective national response plan? How would you improve the plan you have now?

Are all the stakeholders roles clear in the plan? What isn't and who's missing?

## 2) Effective Response

What are the most common barriers to effectively engaging law enforcement agencies? How do you overcome these?

# COFFEE BREAK

# **SESSION 5**

## **EFFECTIVELY MANAGING DISUSED SOURCES**

# Sustainability Indicators

- Are there regulatory requirements in place for maintaining and disposing of disused sources?
- Is a source lifecycle management plan required as part of the licensing process?
- Are the necessary equipment and trained personnel available to search for and secure disused sources?

# Discussion

- How can we ensure that radioactive sources are securely managed throughout their lifecycle ( please focus on the security of disused sources but consider the impacts from earlier in the lifecycle)?
- What works well? What are the remaining challenges?



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# **SESSION 6**

# **BUILDING COMPETENCIES**



# Sustainability Indicators

- Have the necessary skills and competences for the people involved in the security of radioactive sources been identified?
- Do education and professional development opportunities exist in the topic of radiological security?
- How is the competence of the people involved in the security of radioactive sources measured? What could be the role of certification in demonstrating their competence?

# Discussion

1– What is the regulatory body's role in defining the required competencies for individuals who have roles and responsibility for radioactive source security?

2– What's the licensee/operator's role in defining the required competencies for individuals who have roles and responsibility for radioactive source security?

# Group Discussion

## 1. Self-Assessment

- How do I know what competencies I need to fulfil my roles and responsibilities?
- What opportunities do I have to develop my competencies with support from the organisation?
- How are my competencies assessed?

## 2. What good practices for professional development in security would you recommend to others?

# LUNCH



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# **SESSION 7**

## **THE WAY FORWARD – ENSURING SECURITY EFFECTIVENESS AND SUSTAINABILITY**

# Sustainability Indicators

- Are options for permanently reducing the risks (e.g. replacement by alternative technologies) systematically considered?
- Do regulators and other key stakeholders report on their achievements?
- Are achievements benchmarked against other countries and objectives?
- Should assessment templates be developed and indicators be consolidated in a guidance?

# Discussion

- What enables and hinders the replacement of radioactive sources?
- What is the role of key stakeholders in this process?

# COFFEE BREAK



# Group Discussion

- What are the usual challenges and barriers to an effective and radioactive source security regime? How do you measure and decide whether your regime is effective?
- What is the role of benchmarking and reporting in strengthening sustainability? Discuss some examples.
- Should assessment templates be developed and indicators be consolidated in a guidance?

# Activity

1. Identify three follow up actions: one for yourself, one for your organisation and one for your country.
2. Share this with someone from a different country and discuss how you will achieve your actions.
3. Be prepared to share your actions with the facilitator.



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# CONCLUSION SESSION