



INDONESIA CENTER OF EXCELLENCE ON NUCLEAR SECURITY AND EMERGENCY PREPAREDNESS (I-CoNSEP)

BAPETEN
(Nuclear Energy Regulatory Agency)

**Presented in the Annual Meeting of the International Network
for Nuclear Security Training and Support Center**

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1. Introduction

- ❑ Act no 10/1997 on Nuclear Energy provides a clear separation between promoting and regulatory activities.
- ❑ BAPETEN takes the leading role in enhancing nuclear safety and security regime at national level.
- ❑ BAPETEN shall co-ordinate efforts to address challenges
 - ❖ Nuclear security: rise of international terrorism; operational challenge to secure a long shoreline and numerous entry points
 - ❖ Emergency preparedness and response: higher risks of orphan sources; embarking countries in SEA; lessons learned from emergency response to the Fukushima accidents
- ❑ Key measures to address human resources and support services: Indonesia Centre of Excellence on Nuclear Security and Emergency Preparedness (ICoNSEP)



2. Objectives of I-CoNSEP

1. supporting and facilitating the development of **sustainable human resources** through the provision of a National Nuclear Security Training Programme;
2. providing **Support Services for lifecycle equipment management**, the prevention, detection of, and response to nuclear security events;
3. **foster nuclear security culture** and enhance **national co-ordination** among competent authorities;
4. becoming a **center for capacity building** for Nuclear Security **in the regional and international levels**; and
5. **supporting regional and international information and experience sharing and co-operation** in the fields of nuclear security.



3. Roles of I-CoNSEP (1/2)

- ❑ **I-CoNSEP does not replace the roles and responsibilities of the competent authorities, but rather support the implementation of their duties, particularly in the area of nuclear security.**
- ❑ **I-CoNSEP is a co-ordinated endeavour among all relevant stakeholders. Thus every stakeholder has ownership and stake in the project.**
 - ❖ **No duplication and overlap between facilities nor responsibilities;**
 - ❖ **BAPETEN acts as the co-ordinator.**
- ❑ **Primary roles of ICoNSEP:**
 - ❖ **Human resource development**
 - ❖ **Technical and scientific support services**



3. Roles of I-CoNSEP (2/2)

- 1) **Human resource development:**
 - a. **National training program;**
 - b. **Training of Trainer, enhanced with certification; and**
 - c. **Standardization of syllabus on training courses.**
- 2) **Support services**
 - a. **Policy and legal support**
 - b. **Technical Support**
 - i. **Installation**
 - ii. **Calibration**
 - iii. **Maintenance**
 - 1) **Scientific Support**
 - a. **Expert support**
 - b. **Laboratory analysis**



4. Area of I-CoNSEP

Nuclear Security

1. Nuclear Fuel Cycle and Materials;
2. Radioactive Material and Associated Facilities and Activities;
3. Transport Security;
4. Detection Architecture and Capabilities;
5. Response and Mitigation for Nuclear Security Events;
and
6. Information and Computer Security



5. Interagency Co-ordination (1/3)

Agencies	Roles/responsibility
Co-ordination Ministry of Politics, Law and Security	<ul style="list-style-type: none">• Advisory and coordination roles for nuclear security
Nuclear Energy Regulatory Agency (BAPETEN)	<ul style="list-style-type: none">• Regulatory Body for nuclear security at facility level• National Policy on Nuclear Security• Planning of nuclear security capacity and capability• Certification of human resources in nuclear security• PoC NSSC to the IAEA
National Police (Polri)	<ul style="list-style-type: none">• On scene commander for crisis control• Advisory on threat assessments & risk mitigation• Crime scene investigation• Forensic support



5. Interagency Co-ordination (2/3)

Agencies	Roles/responsibility
Directorate General of Customs and Excise (DJBC), Ministry of Finance	<ul style="list-style-type: none">• Border monitoring• Export control
Ministry of Transport	<ul style="list-style-type: none">• Transport regulator, including security requirements at seaports and airports• Port Authorities
Port Operators	<ul style="list-style-type: none">• Implementation of port security
Ministry of Defence (Kemhan)	<ul style="list-style-type: none">• Advisory on national security matters and strategy
Ministry of Law and Human Rights (Menkumham)	<ul style="list-style-type: none">• International and national laws advisory services
National Counter Terrorism Agency (BNPT)	<ul style="list-style-type: none">• Advisory on counter-terrorism matters and strategy



5. Interagency Co-ordination (3/3)

Agencies	Roles/responsibility
<u>State Intelligence Agency (BIN)</u>	<ul style="list-style-type: none">• <u>Advisory and provide intelligence on nuclear security</u>
<u>Maritime Security Co-ordination Agency (BAKORKAMLA)</u>	<ul style="list-style-type: none">• <u>Advisory and co-ordination on maritime security</u>
<u>Gajah Mada University (UGM) and Defence University (Unhan)</u>	<ul style="list-style-type: none">• <u>Partner university for nuclear security</u>• <u>Members of the International Nuclear Security Education Network (INSEN)</u>
<u>National Nuclear Energy Agency (BATAN)</u>	<ul style="list-style-type: none">• <u>Nuclear research and development</u>• <u>Nuclear R&D facility support</u>• <u>Nuclear related Training provider</u>• <u>Maintenance (incl. calibration) of nuclear equipment</u>
<u>Directorate of International Security and Disarmament, Ministry of Foreign Affairs</u>	<ul style="list-style-type: none">• <u>Advisory on nuclear security and international laws</u>



6. Implementation Steps

- ❑ **Step I – Mapping human resources competency and national capacity**
 - ❖ **Responsibility of each related agency**
 - ❖ **Identify facilities provided by each related agency**
 - ❖ **National coordination program**
- ❑ **Step II: Training and facility availability need assessment**
- ❑ **Step III:**
 - ❖ **Human resource training courses and facility improvement**
 - ❖ **more involvement in regional and international level**
- ❑ **Step IV: Maintenance and Sustainability Program**



7. Planned Activities of I-CoNSEP

Dates	Activities
Jan 2014	Internal coordination on I-CoNSEP
Feb 2014	National Coordination on I-CoNSEP
3-7 Mar 2014	IAEA DNS Review Mission on I-CoNSEP
26-27 Mar '14	SV on NSSC to Russia and Hungary
7-11 Apr 2014	IAEA INSServ Mission
2-13 Jun 2014	IAEA IPPAS Mission
9-13 Jun 2014	IAEA IEC Review Mission on I-CoNSEP
19 Aug 2014	Opening or inauguration of I-CoNSEP and Seminar with National Stakeholders on Education and Training on Nuclear Security
19-21 Aug 2014	IAEA Regional Workshop on Integrated Nuclear Security Support Plans
19-28 Aug 2014	IAEA Inter-regional Training Course on Safeguards & Security Aspects of Nuclear Material Accounting and Control of Facilities



THANK YOU

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Terima kasih

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