

# Summary of Country Reports

## —Current Status of 12 FNCA Member States—

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February 27, 2014

# Regulatory Authority:

## Independence of Regulatory Agencies

- ◆ **Independent:** Australia (ASNO), Indonesia (BAPETEN), Japan (NRA), ROK (NSSC)
- ◆ **Semi-Independent\*:** Kazakhstan (KAEA), Malaysia (AELB), Mongolia (NRRRA), Thailand (OAP), Vietnam (VARANS), Bangladesh (BAERA)  
\*The regulatory agency is under a governmental body or ministry to which a nuclear promotion agency belongs
- ◆ **No Independence:** Philippines (PNRI)

### Recent Development

Bangladesh: established BAERA in June 2012

Malaysia, Thailand, Vietnam: Developing acts to establish independent regulatory bodies

# Safeguards (1)

## Implementation of International Treaties and Agreements

- Member of **NPT** (Nuclear Nonproliferation Treaty): 12/12 states
- **CSA** (Comprehensive Safeguards Agreement) in Force: 12/12 states
- **AP** (Additional Protocol) in Force: 10/12 states
- **IS** (Integrated Safeguards): 5/12 states

	NPT Member	CSA in Force	AP in Force	IS
<b>Australia</b>	○	○	12 Dec. 1997	○
<b>Bangladesh</b>	○	○	30 Mar. 2001	○
<b>China</b>	○	○	28 Mar. 2002	n/a
<b>Indonesia</b>	○	○	29 Sep. 1999	○
<b>Japan</b>	○	○	16 Dec. 1999	○
<b>Kazakhstan</b>	○	○	9 May 2007	
<b>Malaysia</b>	○	○	(Signed: 22 Nov. 2005)	
<b>Mongolia</b>	○	○	12 May 2003	
<b>Philippines</b>	○	○	26 Feb. 2010	
<b>ROK</b>	○	○	19 Feb. 2004	○
<b>Thailand</b>	○	○	(Signed: 22 Sep. 2005)	
<b>Vietnam</b>	○	○	17 Sep. 2012	

## Safeguards (2)

### Improvements in Safeguards Implementation of 2013

- ◆ **Bangladesh:** new BAER Act on security and safeguards passed in 2012 and now being enforced; drafting national policy on SAAC
- ◆ **Indonesia:** established database for inspection system
- ◆ **Japan:** Restarted safeguards activities in Fukushima Daiichi Nuclear Power of TEPCO, beginning with nuclear fuel material accountancy at accessible facilities
- ◆ **Kazakhstan:** Long-Term Storage of BN-350 SNF and monitoring
- ◆ **Malaysia:** new Atomic Act to be submitted to the parliament

## Safeguards (3)

### Improvements in Safeguards Implementation of 2013

- ◆ **Mongolia:** preparation for safeguards for near future production of yellow cake
- ◆ **Philippines:** broader conclusion was drawn in 2013
- ◆ **ROK:** enhanced cooperation with IAEA (CGEC); development of new technologies
- ◆ **Thailand:** AP signed but not ratified yet: updating comprehensive law – in preparation
- ◆ **Vietnam:** 2013 as the 1<sup>st</sup> year of AP implementation: declaration, regular inspection, receiving CA; development of safeguards information management system; issued new regulation on AP requirements and import/export control of AP annex 2 items

# Nuclear Security (1)

## Implementation of International Treaties and Conventions

- **CPPNM** (Convention on the Physical Protection of Nuclear Material): 10/12 states
- **CPPNM Amendment\***: 5/12 states
  - \*IAEA Recommendation INFCIRC 225/Rev5 consistent with the Amendment
- **Nuclear Terrorism Convention** (International Convention for the Suppression of Acts of Nuclear Terrorism): (10/12 states committed)
  - Ratification: 3 states, Accession: 1 state, Acceptance: 1 state, Signature: 5 states

	CPPNM	CPPNM Amendment	Nuclear Terrorism Convention
<b>Australia</b>	21 Jan 1989 in force	ratification 17 Jul 2008	signature 14 Sep 05
<b>Bangladesh</b>	10 Jun 2005 in force		accession 07 Jun 07
<b>China</b>	09 Feb 1989 in force	ratification 14 Sep. 2009	ratification 8 Nov 2010
<b>Indonesia</b>	08 Feb 1987 in force	ratification 27 May 2010	Ratification 2013
<b>Japan</b>	27 Nov 1988 in force		acceptance 02 Oct 07
<b>Kazakhstan</b>	02 Oct 2005 in force	ratification 26 Apr 2011	ratification 31 Jul 08
<b>Korea</b>	08 Feb 1987 in force		signature 16 Sep 2005
<b>Malaysia</b>			signature 16 Sep 05
<b>Mongolia</b>	08 Feb 1987 in force		ratification 06 Oct 06
<b>Philippines</b>	08 Feb 1987 in force		signature 15 Sep 05
<b>Thailand</b>			signature 14 Sep 05
<b>Vietnam</b>	03 Nov 2012 in force	ratification 03 Nov 2012	

# Nuclear Security (2)

## Improvements in Nuclear Security Implementation of 2013

- ◆ **Bangladesh:** drafting national policy on nuclear security (DBT, implementation of NSS 13 (INFCIRC/225/Rev 5) recommendations); drafting national implementing guide of DBT; finalizing INSSP
- ◆ **Indonesia:** new regulation on licensing requirements including PP system and SG; will receive IPPAS mission in Aug. 2014; developed guideline for establish PF plan; developing National Single Window; developed the methodology for threat assessment
- ◆ **Japan:** Requested the IAEA for an IPPAS mission (Late 2014 – early 2015); proposed to revise domestic law in accordance with requirements in the 2005 Amendment to CPPNM
- ◆ **Kazakhstan:** upgrading PP by cooperation with US/DOE, DOD

# Nuclear Security (3)

## Improvements in Nuclear Security Implementation of 2013

- ◆ **Malaysia:** developed Nuclear Security Support Plan 2013-2015 (legal prevention, detection, emergency preparedness, HR); considering requesting IPPAS mission; developed national detection strategy of illicit trafficking
- ◆ **Mongolia:** establishment and improvement of technical systems for detection at the borders
- ◆ **Philippines:** review and update of INSSP; development of new regulation on transport security and guideline for transport security plan; revising radiation source security regulation; adopted RAIS
- ◆ **ROK:** started nuclear security training for domestic audience
- ◆ **Thailand:** review of DBT in March 2014; upgraded PP for research reactors after IPPAS mission, applied PP for radiation sources; implementation of NSS 13 recommendations
- ◆ **Vietnam:** implementation of INSSP; Megaport initiative at 1 port from 2013 and RPMs installed at international airport; full conversion of HEU to LEU – HEU-free state



# Nuclear Security Culture

## Methods and Plans to Foster Nuclear Security Culture

- ◆ **Bangladesh:** hosted IAEA national workshop on security culture (2013); hosted seminar and training course on security awareness with US/DOE (2013)
- ◆ **Indonesia:** develop a national guideline on security culture
- ◆ **Japan:** Regulatory requirement for nuclear culture promotion; host a regional training course on Nuclear Security Culture (sharing good practices) with IAEA in November 2014
- ◆ **ROK:** developed nuclear security culture implementing guide; hosted domestic and regional workshops on nuclear security culture

# Capacity Building (1)

## Nuclear Security (and Safeguards) Training Centers

### ◆ COEs in operation

Japan: ISCN (2010), ROK: INSA (2014) , Malaysia: COE for Border Control, Thailand: COE for Nuclear Forensics

### ◆ COEs under construction

China: COE under SNSTC (2015), Kazakhstan: Nuclear Safety Training Center

### ◆ COEs planned to be established

Indonesia: Iconsep, Vietnam: Technical Support Centre for Safeguards and Security

# Capacity Building (2)

## Training programs

	Provider of training	Security	SG	Other topics	Cooperation with
<b>Australia</b>					IAEA, US/DOE, JAEA
<b>Bangladesh</b>	BAEC	○		Border control, nuclear reactor engineering	IAEA, US/DOE, Russia, JAEA
<b>China</b>	SNSTC	○	○		IAEA, US/DOE
<b>Indonesia</b>	BAPETEN	○	○	Border Control	IAEA
<b>Japan</b>	ISCN	○	○		IAEA, US/DOE, EC/JRC
<b>Kazakhstan</b>	NSTC				US, UK, Russia
<b>Korea</b>	INSA	○	○	Export control	IAEA, US/DOE
<b>Malaysia</b>	AELB	○	○	Border control, emergency preparedness	IAEA, US/DOE
<b>Mongolia</b>	NEA	○		Border control, calibration	IAEA, US/DOE
<b>Philippines</b>	PNRI	○	○	Border control	IAEA, US/DOE
<b>Thailand</b>	OAP	○	○	Export control Border control, EP, CBRN, Forensics	IAEA, ASNO, US/DOE, JAEA, EU
<b>Vietnam</b>	VARANS	○	○	Rad detection, EP, CBRN	IAEA, US/DOE, JAEA, EU