NPP and Safeguards Development in Vietnam

Nguyen Nu Hoai Vi, VARANS Jeju, Republic of Korea, 5-7 July 2011

#### **Current Nuclear Facilities**

- Dalat research reactor (500 kW, pool-type):
  - Conversion, in part, of fuel from HEU to LEU in 2007
  - Receipt LEU for full conversion in 2010
  - DU recovered after the war in storage
- Small amount of nuclear material held at ITRRE for research
- Small amount of DU in storage at INST

#### **Future Nuclear Facilities**

- Ninh Thuan 1: first nuclear power plant with two 1000 MWe units, with the following proposed schedule:
  - April 2012: site approval application submitted
  - Sept 2012: site approval
  - July 2014: CP application submitted
  - Dec 2014: CP approval
  - Oct 2020: first unit in operation
  - Oct 2021: second unit in operation
- Ninh Thuan 2: two 1000 MWe units
  - In discussion
  - 2021: first unit in operation
- New research reactor to be constructed to replace Dalat RR

### Recent Development (Legal)

- Atomic Energy Law:
- Article 10: Safeguards activities shall be specified (by the Prime Minister)
- PM Decision for Regulation on Safeguards issued on 14 June 2010
- Circular on safeguards implementation issued on 16 March 2011
- Circular on Import and Export Control of Annex II items being developed
- Circular on AP Requirements
- Circular on Physical Protection of Nuclear Material and Facilities has been developed

#### **Toward AP Implementation**

- Resource Development (in cooperation with INSEP)
  - Train-the-trainer (presentations prepared and practiced)
  - Information Document developed
  - Complementary access table top exercise (March 2011)
  - Introduced Protocol Reporter and Declaration Helper

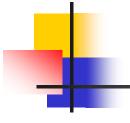


# **Current Staffing and Responsibilities**

- Staff: 03
- Staff background: English Linguistics, Chemistry
- Training: SSAC courses by IAEA, Inspection by INSEP/ASNO, Nuclear security by JAEA
- Responsibilities:
- Safeguards
- Nuclear security
- Export control
- International treaties
- Regulatory document development

## SSAC Development Planning

- Technical infrastructure
- Equipment (NDA, camera...)
- Database (software, hardware) to handle SG/AP information; goods under SG/AP
- Staffing: 09 by 2014
- Should be recruited with legal, technical, IT background
- Training: SG inspection, SG report assessment (including QA), English
- Regulatory document development
- Regulation on AP requirements
- Inspection procedure/manual
- SG/AP information treatment/handling



# **THANK YOU**