



China Atomic Energy Authority

Nuclear Security in China

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China Atomic Energy Authority

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Vienna, Austria

International Symposium on Nuclear Security



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- **Capacity Building in Nuclear Security (NS)**
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China's Infrastructure on NS

- **Basic Policy**
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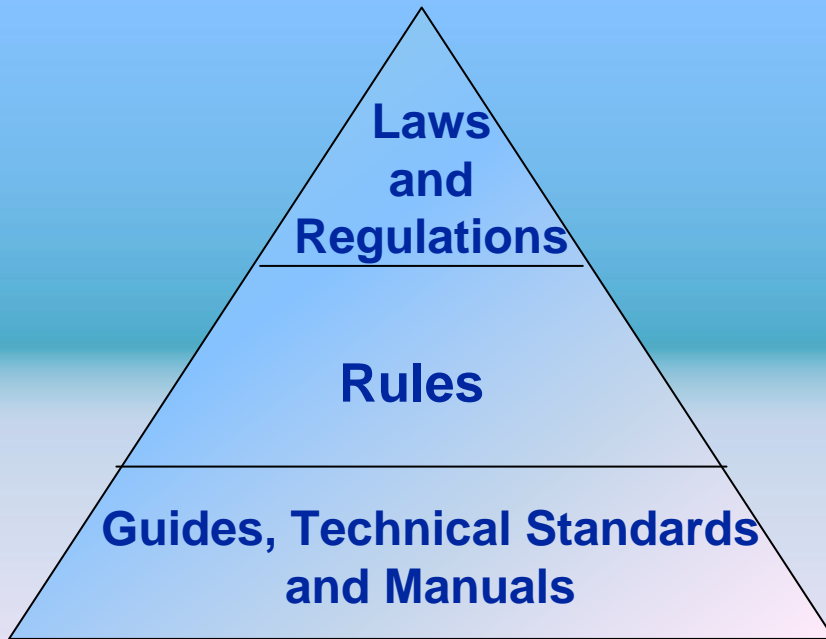
Basic Policy

- Strengthens management of nuclear material and nuclear facilities; ensure the security of nuclear and other radioactive material and nuclear facilities, and the security of the production, process and transportation of nuclear material.
- Opposes any terrorist activities of all forms;
- International cooperation on nuclear security.



Regulatory system

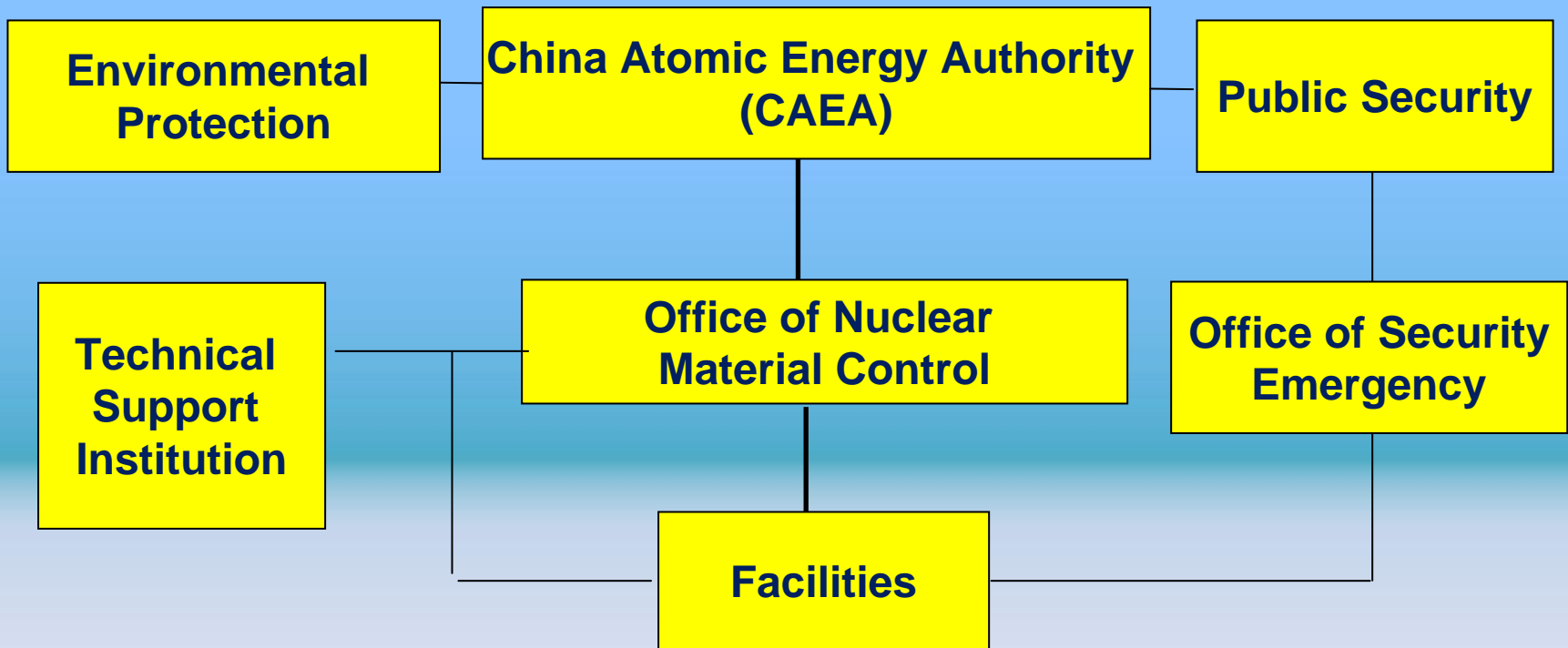
■ Three tiers:



- Regulations of the PRC on Nuclear Materials Control (1987)
- Regulations of the PRC on the Control of Nuclear Export (1997)
- Regulations of the PRC on the Control of Nuclear Dual-Use Items and Related Technologies Export (1998)
- Regulations on Radiological Protection from Radiological Isotopes and Ray Devices(2005)
- Rules for the Implementation of Regulations on Nuclear Materials Control (1990)
- Rules on Physical Protection for Nuclear Materials International Transport (1994)
- Rules on Inspection of Nuclear Materials Control (1997)
- Rules on Security of Nuclear Power Plants (1997)
- Rules on Radioactive items import and export license application and cooperation safeguards.(2002)



Organizational structure





Capacity Building in NS

- Enhance technical measures.
- International Cooperation.



Enhance Technical Measures(1)

- Formulate plans concerning response to nuclear and radiation terrorist attacks
- Enhance physical protection of nuclear material and nuclear facilities.
 - New nuclear facilities compliance with standards at the international level from constructing.
 - Existing facilities have also been upgraded accordingly.



Daya Bay Nuclear Power Station



Enhance Technical Measures(2)

- Emergency preparedness have been put in place for nuclear material and other radioactive material, facilities and transportation system based on threat assessment .



**Access control system
Qinshan Nuclear Power Station**



International Cooperation

China takes an active part in the international nuclear cooperation. While making continuous efforts to improve domestic regulation system, China places much importance on international cooperation and exchanges in the area of nuclear security, and actively supports international efforts in this regard.



International Cooperation(cont.)

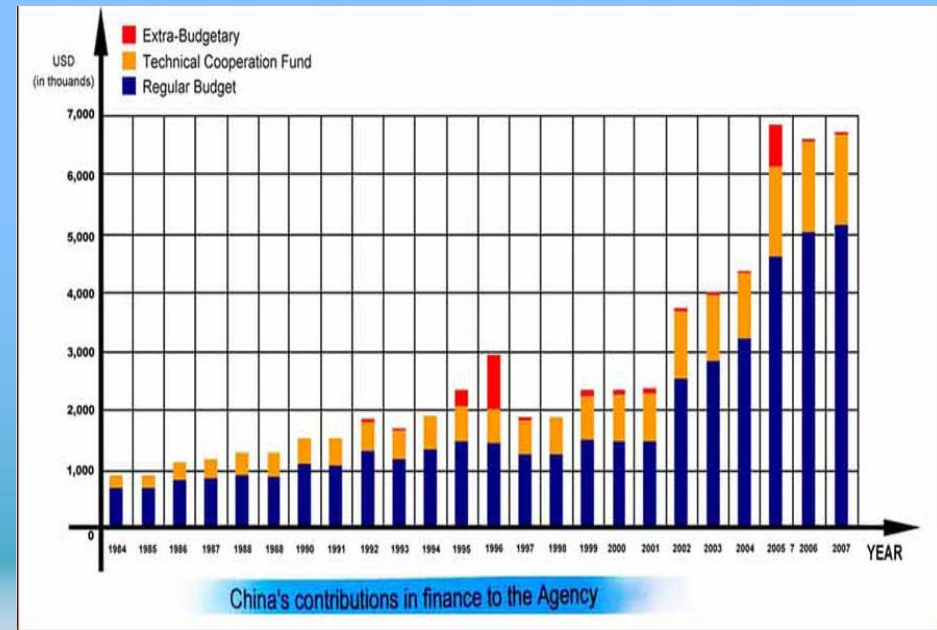
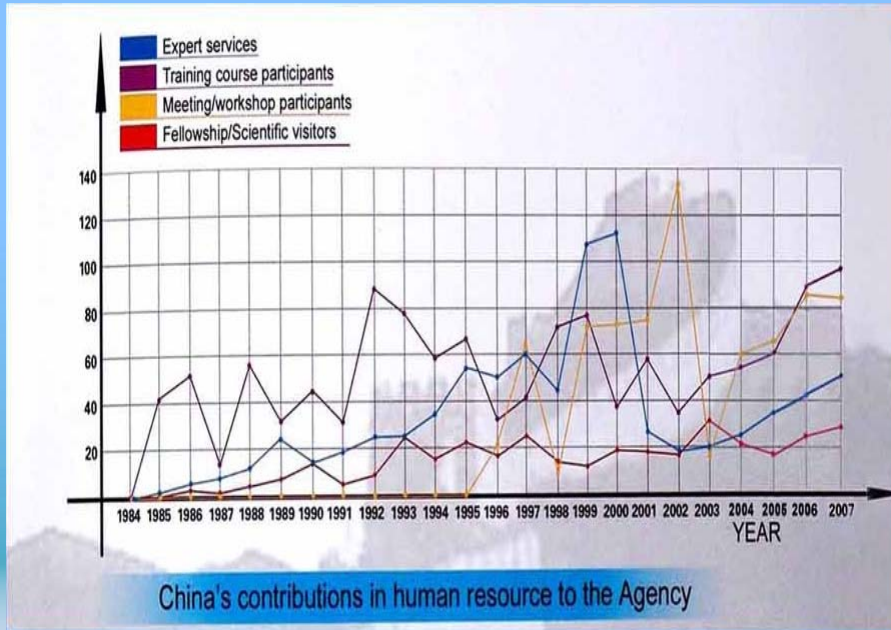
● Contribution to international efforts on nuclear security

- UN Security Council Resolution 1373 (2001)
- UN Security Council Resolution 1540 (2004)
- Convention on the Physical Protection of Nuclear Material (Jan., 1989)
- Amendments of Convention on the Physical Protection of Nuclear Material (July, 2005)
- International Convention on the Suppression of Acts of Nuclear Terrorism (April, 2005)





China's Cooperation with IAEA



Statistics on Technical Cooperation between China and IAEA



Training Courses



**Training course on combating illicit trafficking of nuclear and other radioactive material,
May 28 – June 1, 2007
Beijing, China**



**The National Training Course on Radiation Detection at Strategy Locations for Security Personnel (Trainers)
March 31-April 4, 2008
Beijing, China**



Strengthen Cooperation between China and Agency



Ceremony of the CAEA-
IAEA Joint Training
Center on Nuclear
Safeguards and Security



CAEA-IAEA Practical
Cooperation
Arrangement on Nuclear
Security
June, 2007



Bilateral Cooperation



**Joint Demonstration at CIAE
on 24 October 2005 in Beijing.**



**Technical research on nuclear
material measurement**



**Upgrade of physical protection system for
radioactive sources at Irradiation Center of
the Chinese Academy of Agriculture Sciences**



Suggestions

- Firstly, the Agency should continue to encourage member states to sign and approve relevant legal documents concerning international nuclear security;
- Develop related technical documents on nuclear security, as guidance for member states;
- Through joint research projects, with participation of member states, to enhance cooperation among member states;
- Lastly, establish regional nuclear security centers, which would be a convenient and efficient platform for member states in the region to share information, technology and train personnel.



Nuclear Security for 2008 Beijing Olympic Games(1)

- Beijing Organizing Committee of Olympic Games and other related ministries attach great importance on nuclear security.
- Full-scope security arrangement had been conducted, in which nuclear security was a key component.
- Some research and development of detection equipment specific for nuclear security of Major Public Event(MPE) was also carried out.
- Through international cooperation, china has successfully used the experience feedback from other countries



Nuclear Security for 2008 Beijing Olympic Games(2)



Radiation detection equipment at the entrance of an Olympic Venue.



Radiation detection equipment used in Beijing Olympics.



Nuclear Security for 2008 Beijing Olympic Games(3)



Luggage radiation monitor



Pedestrian radiation detection equipment



Vehicle radiation detection system



Nuclear Security for 2008 Beijing Olympic Games(4)



**CAEA-IAEA Practical Cooperation Arrangement on Nuclear Security
June, 2007**



Nuclear Security for 2008 Beijing Olympic Games(5)



CAEA and IAEA representatives signed a memorandum on hand-over of nuclear security equipment, May 21, 2008.



Nuclear security detection equipments provided by IAEA for the Beijing Olympic Games



Nuclear Security for 2008 Beijing Olympic Games(6)



Great Success — 2008 Beijing Olympic Games



Conclusion

- Facing with complicated and changeable international security situation, China, as a member of the international community, will, as always,
 - Strengthen the Regulatory System and capability of Nuclear Security continuously.
 - Participate various efforts by the international community in strengthening nuclear security, and anti nuclear terrorist activities.
 - Ensure Nuclear Security for all nuclear and other radioactive materials and associated facilities.



Further Remarks

- We should be fully aware that the formation and improvement of international nuclear security system should be an on-going process.
- As a responsible State, China will continue to participate in all kinds of international efforts in this regard, and make active contribution to the lasting peace and common prosperity of the international community .



Thank you!

