



BADAN PENGAWAS TENAGA NUKLIR

NUCLEAR ENERGY REGULATORY AGENCY



THE ESTABLISHMENT OF REGULATION FOR SUPPORTING THE DEVELOPMENT OF THE FIRST NPP IN INDONESIA

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INSTALLATION AND MATERIAL

BAPETEN

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INTRODUCTION



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- Due to the crisis of energy that has befallen in Indonesia recently, Government of the Republic of Indonesia has repositioned itself in considering nuclear energy as an option to generate electricity to meet the increasing demands of electricity.
- Issued Pres.Reg No.5/2006 on The national energy policy
 - Nuclear energy up to 2025 is 2% from total national energy
- Introduction of Nuclear Power Plant (NPP) is needed, which is intensively discussed nowadays, is another challenge to Regulatory Body to be more professional in performing control of the nuclear energy usage.



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- The control of nuclear energy usage in Indonesia is conducted by Nuclear Energy Regulatory Agency (BAPETEN).
- BAPETEN was established in 1998 based on the Act No. 10 Year 1997 on Nuclear Energy.
- The task and function of BAPETEN is to control any activity regarding the use of nuclear energy, in order to protect workers, public and environment from the potential hazards of nuclear energy utilizations.



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- Article 4 par (1) Stipulates the government establish the Regulatory Body to control the nuclear energy utilization.
- Article 4 par (2) and Article 14 stated that main tasks of Regulatory Body comprise 3 aspect of control of nuclear energy utilization i.e.
 - a. making regulation,
 - b. processing licence and
 - c. performing inspection.



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LEGAL BASIS



Act No 31/1964
Basic Provisions of Atomic Energy

NATIONAL ATOMIC ENERGY AGENCY (BATAN)

TASKS:

- To conduct R & D and promotion on nuclear energy
- To control the nuclear energy usage

→ Atomic Energy Control Bureau – BPTA (1985)



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Act No. 10/1997
on nuclear energy

NATIONAL NUCLEAR ENERGY AGENCY (BATAN)

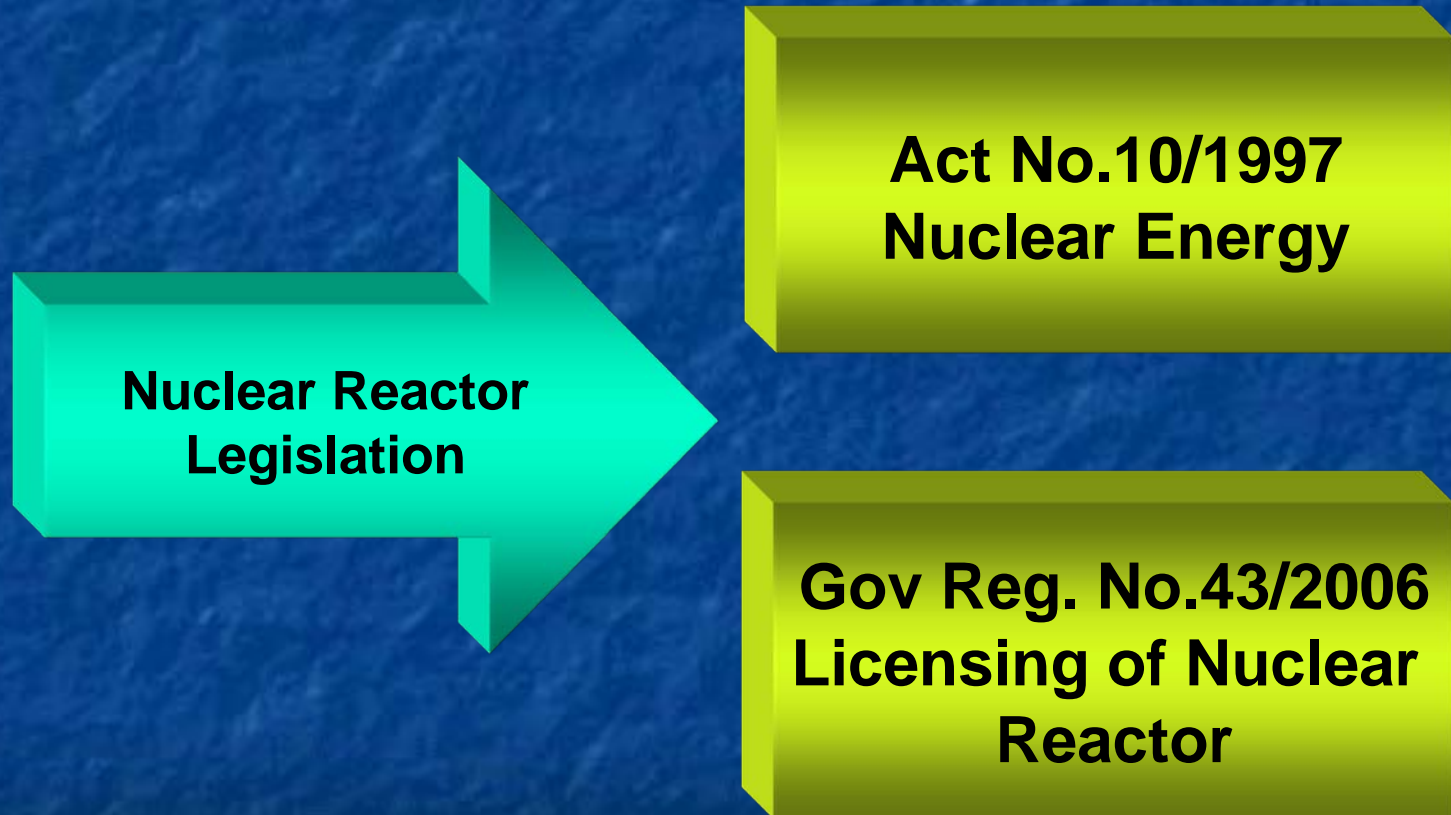
Promoting Body:
To conduct R&D and promotion on nuclear energy

NUCLEAR ENERGY REGULATORY AGENCY (BAPETEN)

Regulatory Body:
To control the usage of nuclear energy
(Established on May 8, 1998)



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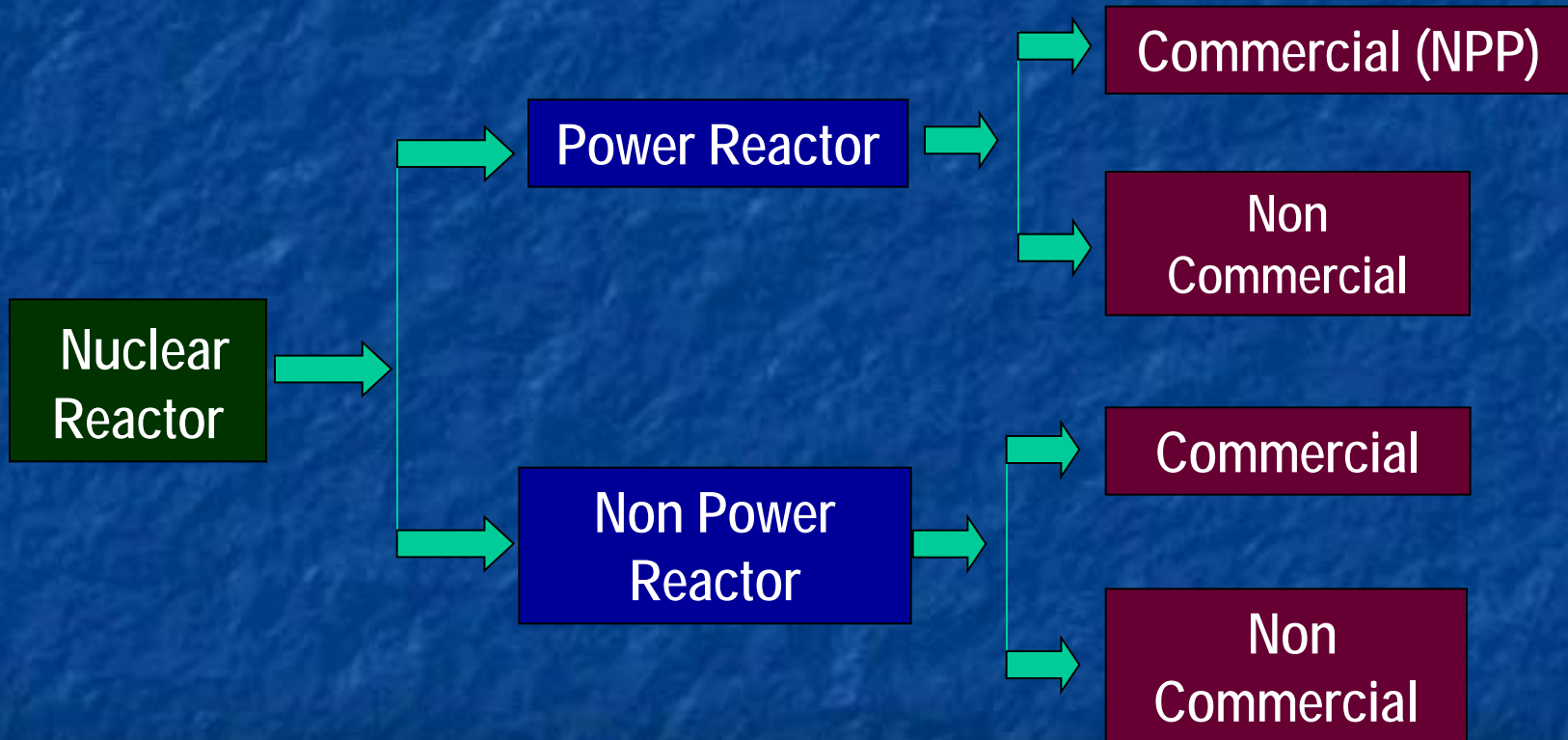


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GR No.43/2006

Act No.10/1997





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Construction, operation, and decommissioning

DOER

Non-commercial

Power reactor
Non power reactor

By:
Executing body, could
cooperate with state
universities

Commercial

Power reactor (NPP)
Non power reactor

State company, co-operative,
and / or private company :
Article 13 (3) Act No.10/1997

- **Article 13 (4) Act No.10/1997:** The commercial construction of NPP shall be established by the government after consultation with the house of representatives of RI
- **Article 5 (4) GR No.43/2006:**
The construction of NPP construction is decided by the responsible minister in field of electrical power



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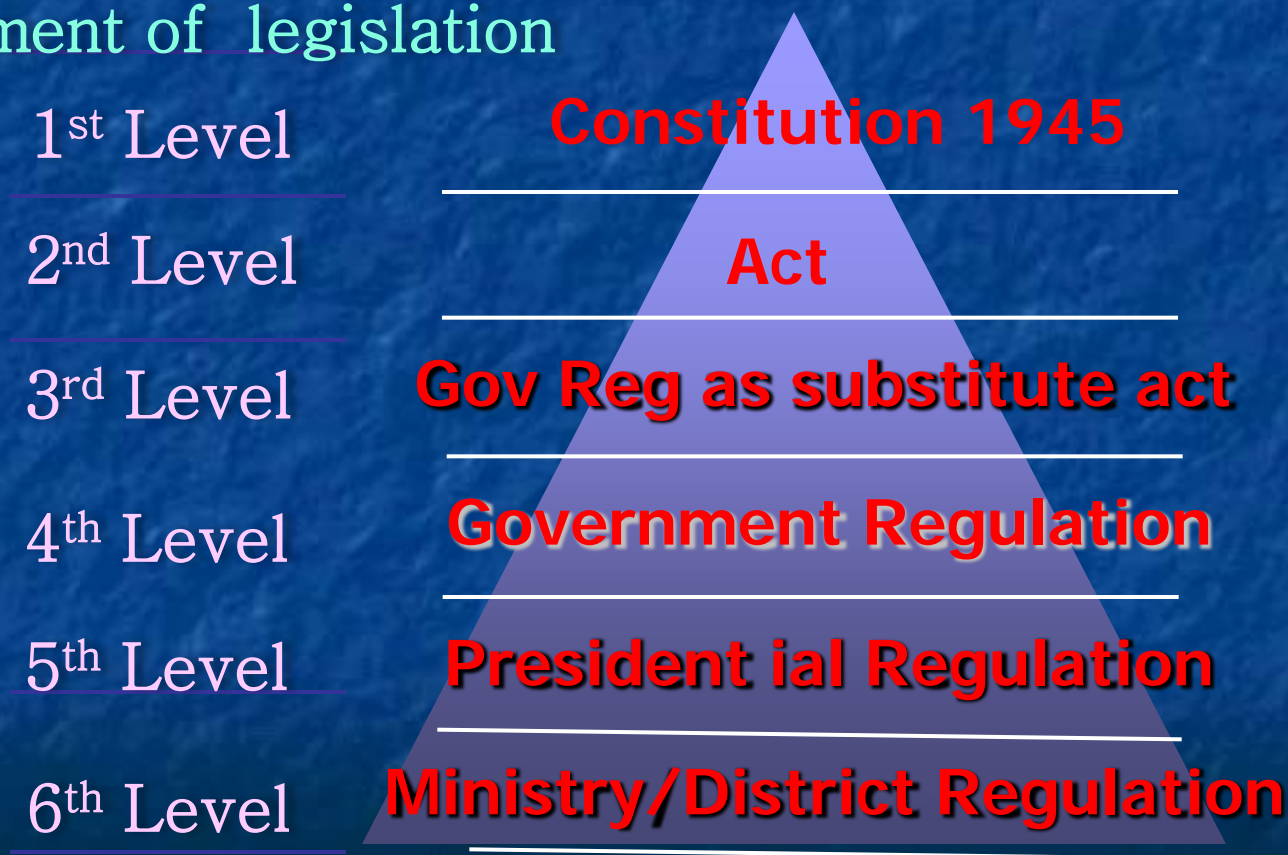


PROCESS OF ESTABLISHING LEGISLATION



HIERARCHY OF NATIONAL LEGISLATION

Based on Act No.10/2004 on the establishment of legislation





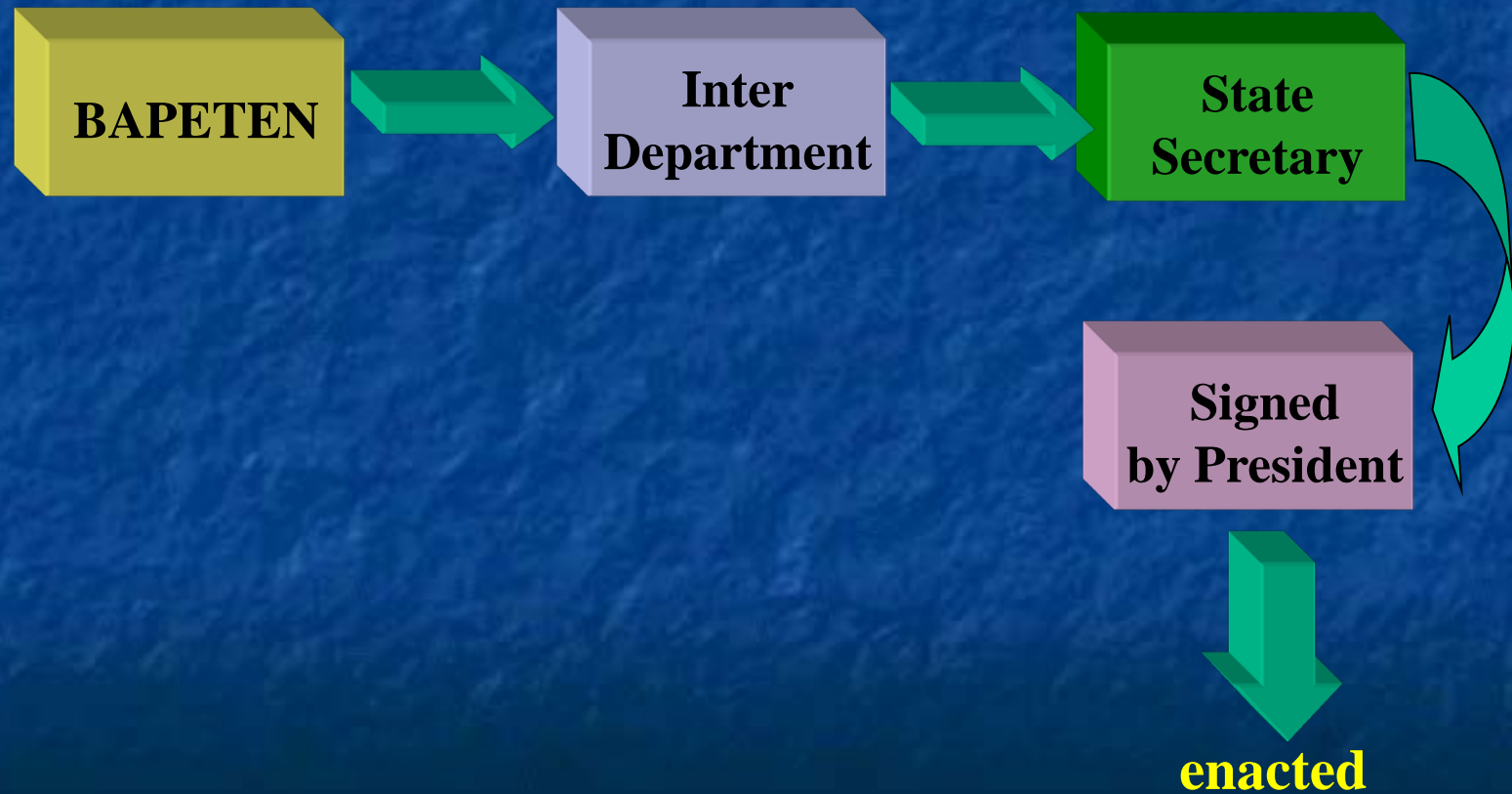
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PROCESS OF ESTABLISHING a NUCLEAR REGULATION

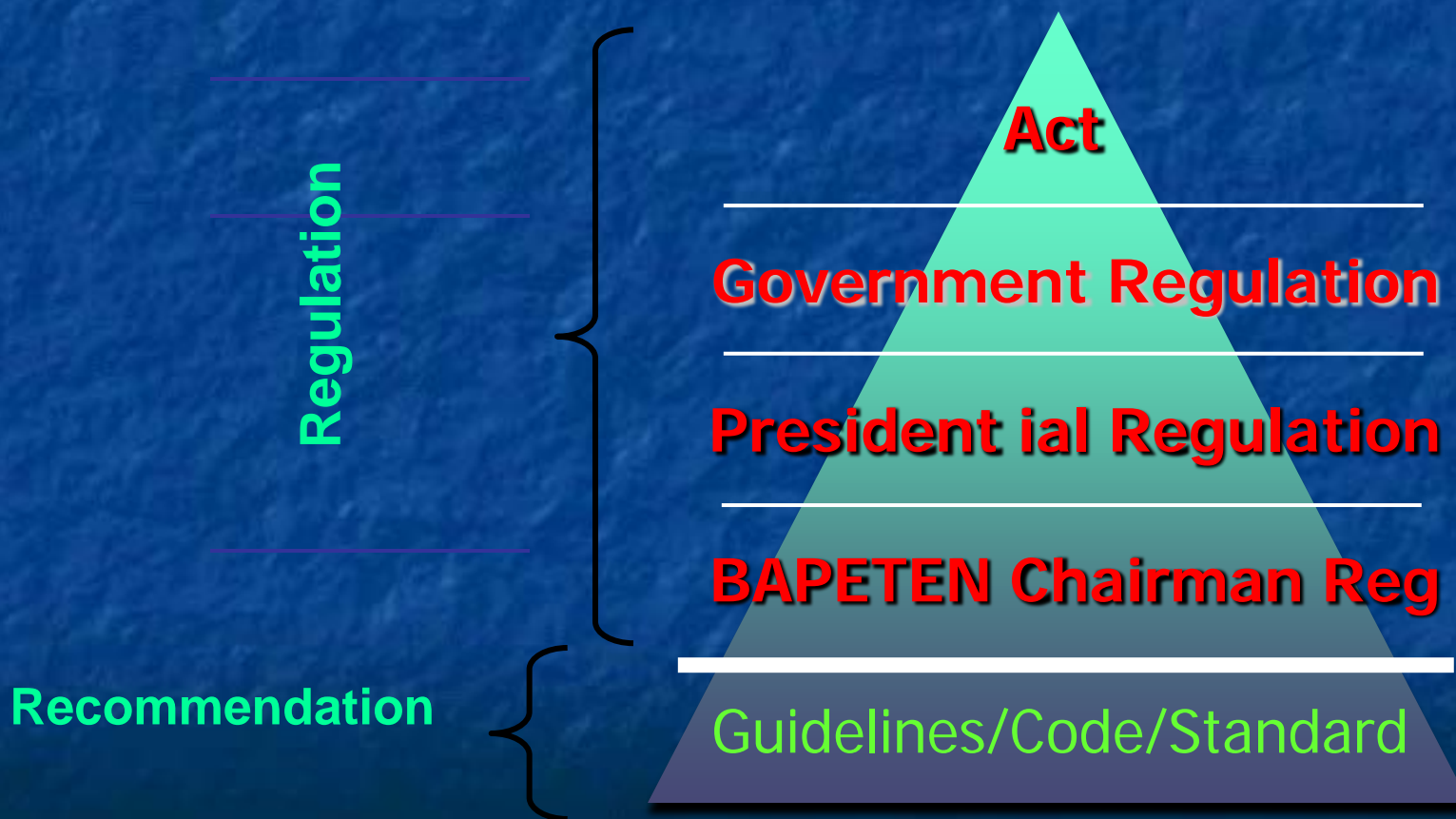


GOVERNMENT REGULATION AND PRESIDENTIAL REGULATION





HIERARCHY OF NUCLEAR SAFETY REGULATION





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CURRENT STATUS OF DEVELOPMENT OF REGULATIONS FOR NPPs



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I. LAW & REGULATIONS

~ 2003	2004	2005	2006..	...2008	2009	remarks
Act on Nuclear Energy						No. 10/1997
GR on Safe Transport of NM						No. 26/2002
GR on Radwaste Management						No. 27/2002
					GR on Tariff of Nuclear Licensing	No. 27/2009
					GR on The Licensing of Nuclear Reactor	No. 43/2006

Act = Set up by the General Assembly, signed by the President of Republic of Indonesia

GR = Government Regulation, signed by the President of Republic of Indonesia



LAW & REGULATIONS (cont.)

2004	2005	2006	2007	2008	2009	remarks
						No. 33/2007
						Under discussion
						No. 46/2009
						Under discussion
						No. 29/2008



II. BAPETEN CHAIRMAN REGULATIONS (BCRs)

2005	2006	2007	2008...	2010	2011	remarks
BCR on Site Evaluation						5/2007, 1-6/2008
BCR on Design & Const of NPP.						Final Draft
BCR on Commissioning of NPP						Final Draft
BCR on Safety Operation Of NPP						On going
BCR on Safety Decomm.						Planning



CONCLUDING REMARKS

- To support the first NPP in Indonesia, BAPETEN has developed and will continue to improve the NPP regulations to control the construction and operation of the NPPs.
- To establish or to revise a regulation for controlling of the use of nuclear energy shall comply with the national constitutional and legal system (Act No.10/2004)
- To conduct the regulatory controls for the NPP, BAPETEN is empowered by the Law and Regulations:
 - Act No. 10/1997 on Nuclear Energy as a basic law in nuclear energy;
 - Government Regulations, such as GR No. 43/2006 on The Licensing of Nuclear Reactor; and
 - BAPETEN Chairman Regulation



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Thank you for your attention