



BADAN PENGAWAS TENAGA NUKLIR
Nuclear Energy Regulatory Agency



REGULATION ON PERIODIC SAFETY REVIEW IN INDONESIA

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BAPETEN

*ANSN Annual Meeting and Regional Advisory Safety Committee for Research Reactor
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REFERENCE

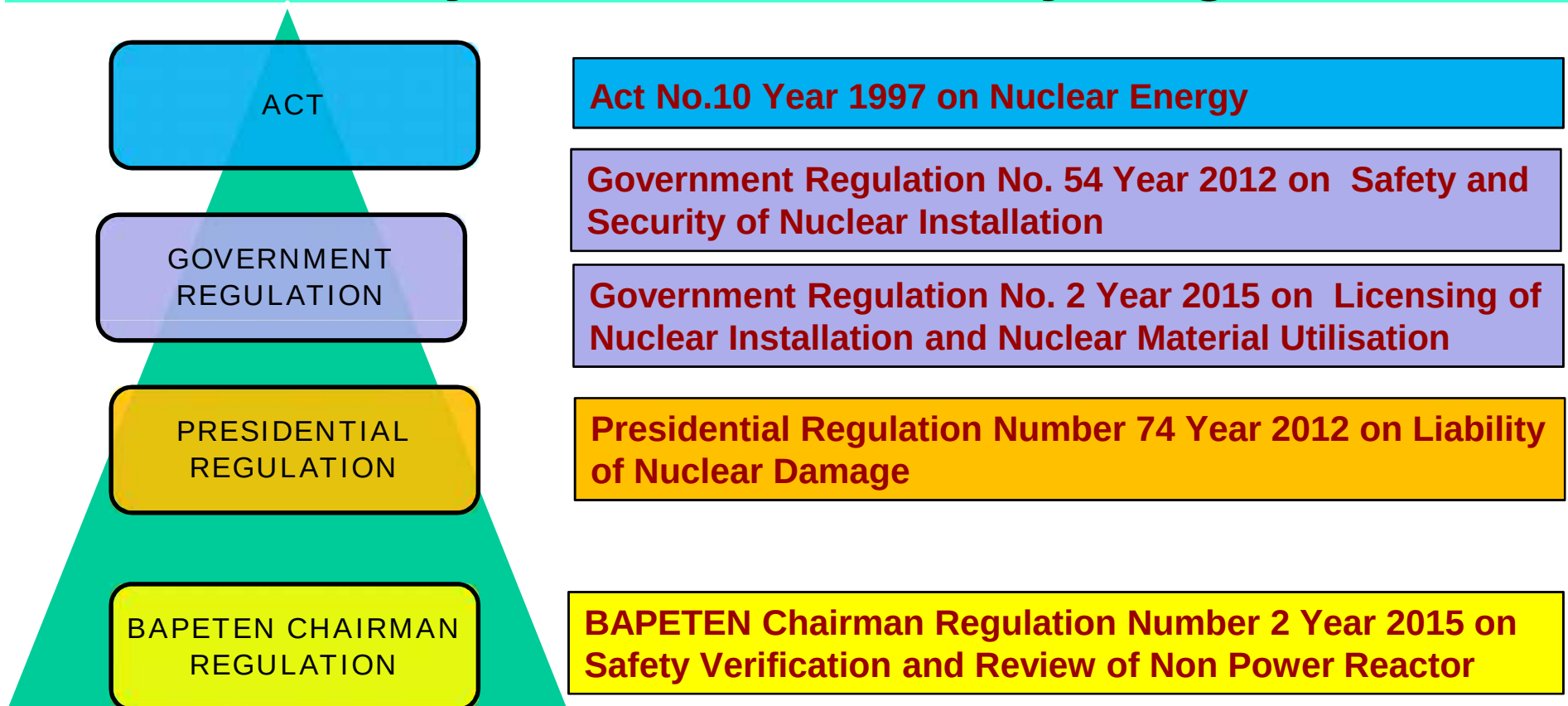
- **Government Regulation Number 54 Year 2012 on Safety and Security of Nuclear Instalation;**
- **Government Regulation Number 2 Year 2014 on Licensing of Nuclear Installation and Nuclear Material Utilisation;**
- **BAPETEN Chairman Regulation Number 2 Year 2015 on Safety Verification and Review of Non Power Reactor;**
- **IAEA SSG-25 : Periodic Safety Review for NPP (2013);**
- **IAEA TECDOC 1643, Periodic Safety Review of NPP: Experience of Member States.**



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Hierarchy of Nuclear Safety Regulations





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Periodic Safety Review Regulation

Government Regulation No. 54 Year 2012

Article 37

The licensee shall perform safety verification and review during construction, commissioning, and operation stage of nuclear installation.

Article 39

Safety review as stipulated in Article 37 shall be performed periodically and cover review to the:

- a. nuclear installation design;**
- b. latest condition on structure, system, and component;**
- c. tools qualification;**
- d. ageing;**
- e. safety performance and feedback on operation experience;**
- f. safety management and nuclear preparedness program; and**
- g. radiological impact on the environment.**



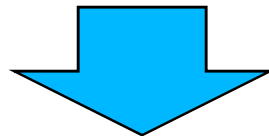
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Periodic Safety Review Regulation

Article 42

Further requirements on the procedure of verification and safety review are regulated by a BAPETEN Chairman Regulation.



BAPETEN Chairman Regulation Number 2 Year 2015 on Safety Verification and Review of Non Power Reactor



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Periodic Safety Review Regulation

Government Regulation No. 2 Year 2014

Article 48

- (3) Application for renewal of the Operation permit as referred to in paragraph (2) shall be submitted in writing to the BAPETEN's Chairman within a period of 3 (three) years before the expiration of the permit.**
- (4) Written application as referred to in paragraph (3) shall be accompanied by the following documents:**
 - a. safety analysis report;**
 - b. periodic safety review report;**
 - c. operation report; and**
 - d. aging assessment report.**



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BAPETEN Chairman Regulation Number 2 Year 2015 on Safety Verification and Review of Non Power Reactor

Graded Approach

relies on the characteristics and potential radiological hazard of non power reactor, based on:

- a. types of non power reactor;**
- b. types of nuclear fuel; and**
- c. power levels.**

PSR covers :

- a. nuclear installation design;**
- b. latest condition on structure, system, and component;**
- c. tools qualification;**
- d. ageing;**
- e. safety performance and feedback on operation experience;**
- f. safety management and nuclear preparedness program; and**
- g. radiological impact on the environment**



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BAPETEN Chairman Regulation Number 2 Year 2015 on Safety Verification and Review of Non Power Reactor

PSR shall be conducted regularly every 10 (ten) years

The results of the PSR shall be submitted to the BAPETEN's Chairman as PSR Reports for:

- a. obtaining approval from the BAPETEN's Chairman; and**
- b. applying renewal of Operating permit**

BAPETEN's Chairman conducts assessments of the application for approval PSR Reports in a maximum period of 6 (six) months after the documents are received.

BAPETEN's Chairman shall give notification to the licensee the results of assessment of PSR Reports if the documents have not met the requirements.



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BAPETEN Chairman Regulation Number 2 Year 2015 on Safety Verification and Review of Non Power Reactor

The licensee shall make improvements of the PSR Report within a maximum period of 6 (six) months from the receipt of BAPETEN's Chairman notification.

Assessment of PSR Reports and the improvement of the PSR Reports can be repeated within a period of 1 (one) year after the application was submitted.

In terms of the assessment results indicate the application meets the requirements, BAPETEN's Chairman shall give approval



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BAPETEN's Chairman shall refuse the application for approval if :

- a. the licensee does not submit the improvements of the PSR Reports within the period of time; or**
- b. The improvements of the PSR Reports have not meet the requirements.**



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BAPETEN Chairman Regulation Number 2 Year 2015 on Safety Verification and Review of Non Power Reactor

Appendix: Format and Contents

Chapter	Contents
I	: Introduction
II	: Design of non power reactor
III	: Latest condition on structure, system, and component
IV	: Tools qualification
V	: Ageing
VI	: Safety performance and feedback on operation experience
VII	: Safety management and nuclear preparedness program
VIII	: Radiological impact on the environment
IX	: Conclusion
X	: Recommendations and follow-up plans



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