

Research Reactor Decommissioning and Demonstration Project (R²D²P)

Legal and Regulatory Framework on Decommissioning of Research Reactors

**Ibrahim MUHAMAD
AELB MALAYSIA**



Research Reactor Decommissioning and Demonstration Project



**Ibrahim Muhamad
Principal Assistant Director
Atomic Energy Licensing Board
Ministry Of Science Technology
& Innovation
Batu 24 Jalan Dengkil
43800 Dengkil, SELANGOR
Tel : 03 – 8928 4143
E-mail : ibrahim@aelb.gov.my**



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Research Reactor Decommissioning and Demonstration Project

LEGAL AND GOVERNMENTAL INFRASTRUCTURE

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Research Reactor Decommissioning and Demonstration Project

Topical Areas in Legal and Governmental Infrastructure

- Establishment of a National Regulatory Framework
- Establishment of the Organizational Structure of the Regulatory Body
- Fulfilment of the Activities of the Regulatory Body
- Establishment of Specific Infrastructures

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2.1 ESTABLISHMENT OF A NATIONAL REGULATORY FRAMEWORK

2.1.1. Legislation and regulations

- the Atomic Energy Licensing Act 1984 (AELA) be promptly amended to update its provisions
- The AELA is undergoing the process of amending – phase 1 (internal committee)
- Other regulations (BSS, Transport, Licensing) undergoing amending process at different stages while other new regulations are in the process of drafting (Management of RAW, Medical Devices).

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2.1.2. Regulatory body

- designating the AELB as the sole regulatory body in Malaysia and ensuring its independence by placing it under the supervision of a Minister not connected with the development or promotion of nuclear energy.
- AELB is given the budget and authority to carry out its duties as listed in the AELA. Current situation in Malaysia, the experts on monitoring and control of medical activities is in the relevant ministry. Independent and professional conduct are ensured through reporting to the Board.

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AELB DOCUMENTS

- Atomic Energy Licensing Act 1984
[COMPULSARY TO FOLLOW]
- Regulations, Orders and Conditions of the Licence
[COMPULSARY TO FOLLOW]
- Code Of Practice/ Standards
- Advisory Materials/Guides

ACT 304

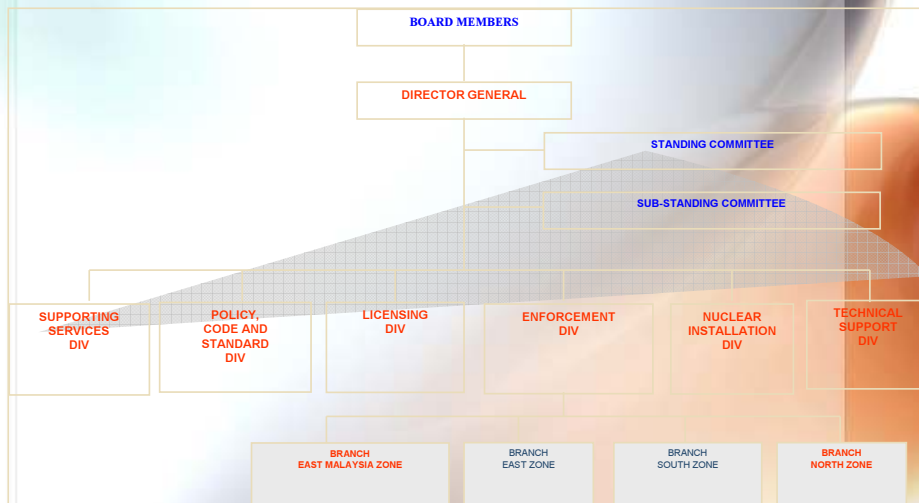
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|---|---|
| I. PRELIMINARY | VI. DISPOSAL OF RADIOACTIVE WASTE |
| II. ATOMIC ENERGY LICENSING BOARD | VII. APPEAL |
| III. CONTROL AND LICENSING | VIII. POWERS OF SEIZURE AND ARREST, OFFENCES AND FORFEITURE |
| IV. CANCELLATION, SUSPENSION AND RENEWAL OF LICENSE | IX. LIABILITY FOR NUCLEAR DAMAGE |
| V. HEALTH AND SAFETY | X. GENERAL |

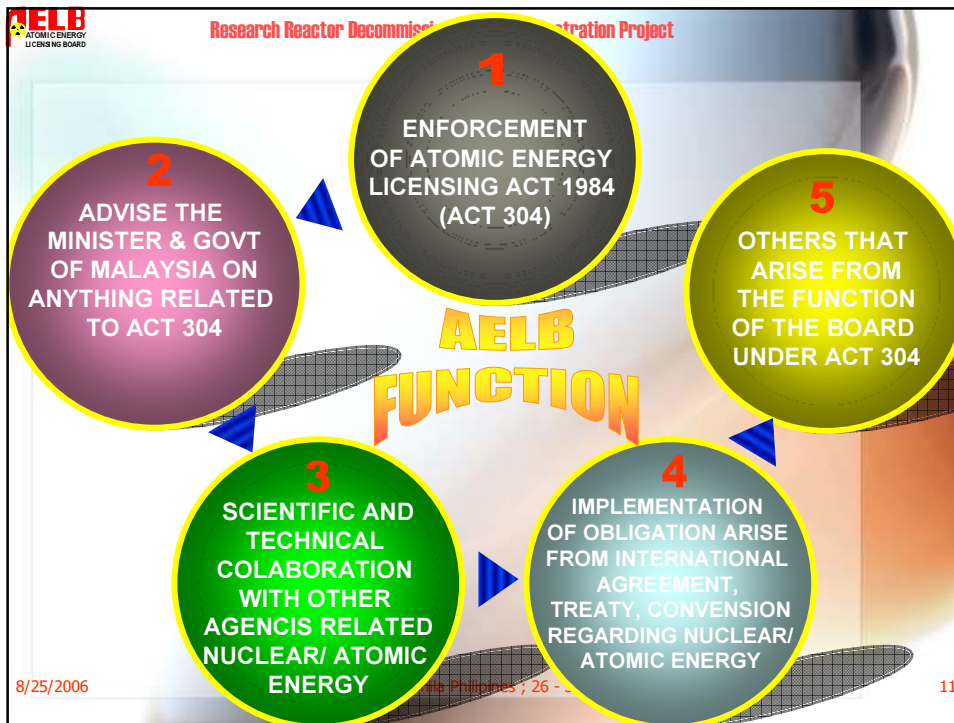
2.2. ESTABLISHMENT OF THE ORGANIZATIONAL STRUCTURE OF THE REGULATORY BODY

ESTABLISHMENT OF AELB

- 1 February 1985
- Section 3 Act 304
- Enforcement Agency to the related thereto Act 304.
- Under Ministry Of Science, Technology & Environment
- After election Mac 2004: Ministry Of Science, Tech & Innovation

AELB ORGANIZATION CHART





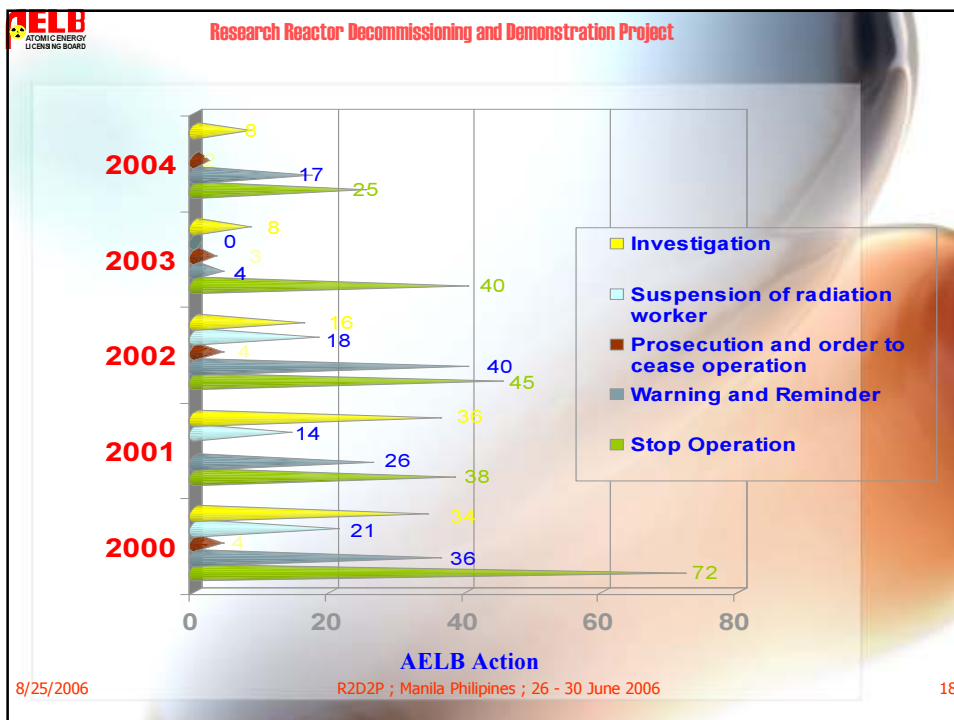
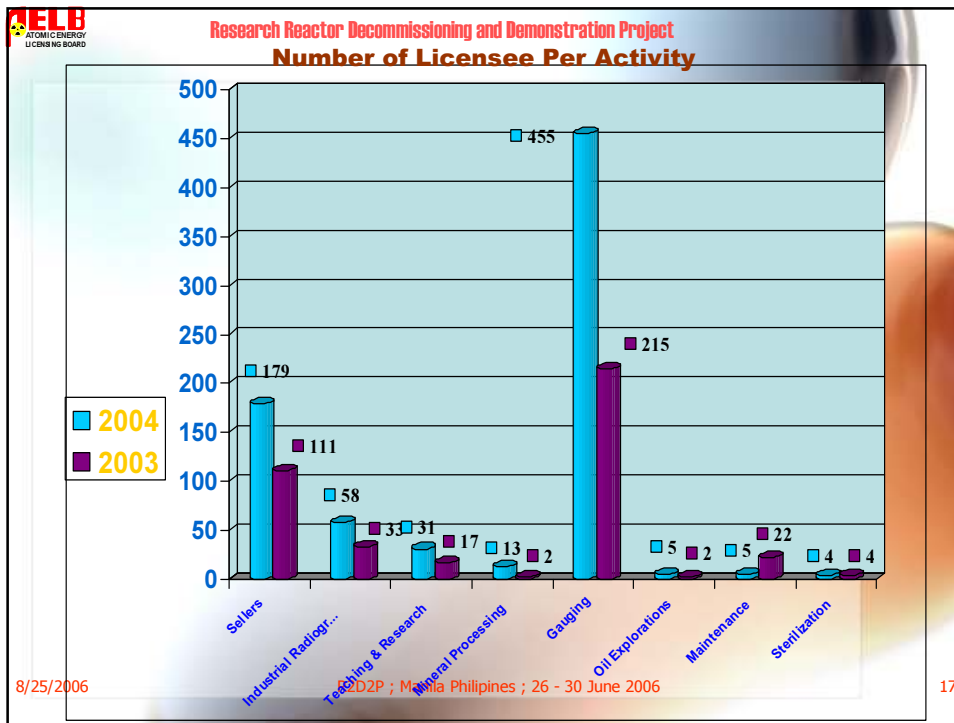
- AEELB**
ATOMIC ENERGY LICENSING BOARD
- Research Reactor Decommissioning and Demonstration Project
- 2.2.1. General organization
- New division specifically for Nuclear Installation Safety established in July 2003. Maximum post (professional) is 7. Employed (as per 23 June 2006) is 5.
- 2.2.2. Support to the regulatory body
- Universities and other relevant government agencies
- 2.2.3. Relations between the regulatory body and the operator - good relationship
- 2.2.4. International co-operation
- AELB is open to cooperation with other international agencies and other countries (example : Indonesia for Education & Training, South Korea for Emergency Centre)
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2.3. FULFILLMENT OF THE ACTIVITIES OF THE REGULATORY BODY

- The only nuclear installation in Malaysia (MINT) are licensed by AELB. Current focus is to ensure the Safety Analysis Report complies with International Standard.
- Effort to enhance authorization, inspection and enforcement procedures are being carried out.

REACTOR TRIGA PUSPATI





2.4. ESTABLISHMENT OF SPECIFIC INFRASTRUCTURES

2.4.1. Infrastructure for emergency preparedness

AELB was recognized as the lead agency for radiological incident/accident in Malaysia. A National Committee chaired by the PM has been established. Efforts to enhance the capabilities are being carried out as recommended in the Peer Review Mission Feb 2004.

2.4.2. Other specific infrastructures

Other infrastructure such as Radioactive Waste Management and SSDL has been established at MINT and has been providing services to users in Malaysia and nearby countries. Findings in the Peer Review Mission (ORPAS): Milestone 2 effectively achieved.

NATIONAL RADIOLOGICAL CENTRE



REKOMENDASI PERENCANAAN DAN BANGUNAN
 BERTUKUTAN VERTIKAL DAN/ATAU HORIZONTAL
 BERKONDISI LEBAR DAN TERBUKA KEPADA LINGKUNGAN
 SEKITAR (SUDUT BUKIT, 2006)



CONTOH RENCANA STRUKTUR DAN/ATAU PERLENGKAPAN
 BERTUKUTAN VERTIKAL DAN/ATAU HORIZONTAL
 BERKONDISI LEBAR DAN TERBUKA KEPADA LINGKUNGAN
 SEKITAR (SUDUT BUKIT, 2006)



SARANAN PUSAT PENGURUSAN MAKLUMAT DAN MULTIMEDIA,
 SERTA PUSAT KENDALIAN KECEMASAN RADIOLOGI
 KEKANGSAAAN LEMBAGA PERLENGKAPAN TENAGA ATOM (AELB)
 DI DENGKEL, SELANGOR DARUL EHSAN

