

Legal Requirements in Security of Radioactive Sources

**National Radioactive Source Security Awareness
Seminar**

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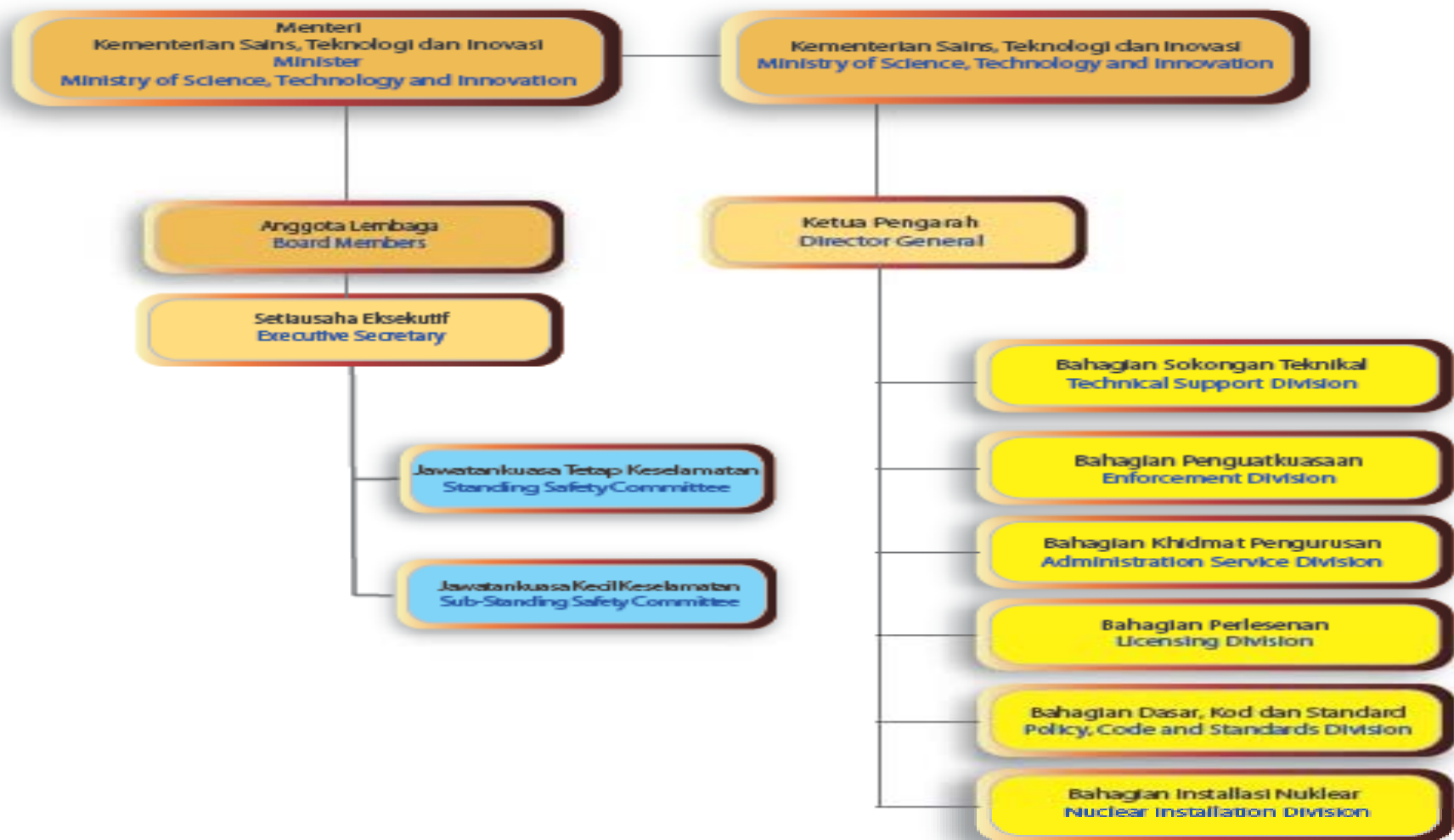
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Introduction

- **AELB as the regulatory body**
 - ✓ Legal infrastructure
 - ✓ Inspection activities
 - ✓ Enforcement
- **Ensuring safety and security of RS [CoC 2004]**
 - ✓ Agreed by the Board on 16th August 2007
- **Uses of radioactive material**
 - ✓ Industrial
 - ✓ Medical
 - ✓ Research
- **Categorization of RS**

Carta Organisasi Organisation Chart



Legislations Framework

- **Act 304 and its subsidiary legislations**
 - ✓ Licensing
 - ✓ BSS
 - ✓ Transport
 - ✓ Waste Management
 - ⊖ Security
 - ⊖ Safeguards
- **Order**
- **Conditions of Licences (Sec. 17(1))**

IAEA publications

- **CoC on S&S of RS , 2004**
- **Guidance on Import and Export**
- **Security of RS [TECDOC 1355]**
- **Categorization of RS [TECDOC 1344]**

Definitions

- **Safety** - means measures intended **to minimize** the likelihood of accidents involving **radioactive sources** and, should such an accident occur, to mitigate its consequences.
- **Security** - means measures **to prevent** unauthorized access or damage to, and loss, theft or unauthorized transfer of, **radioactive sources**. [CoC 2004]

- **Radioactive source** - means **radioactive material** that is permanently sealed in a capsule or closely bonded, in a solid form and which is not exempt from regulatory control. It also means any radioactive material released if the radioactive source is leaking or broken, but does not mean material encapsulated for disposal, or nuclear material within the nuclear fuel cycles of research and power reactors
- **Radioactive material** – means any nuclear fuel, radioactive product or radioactive waste [Act 304]

Security Requirements

- **Act 304:**
 - **Sec. 16 Application of licence**
 - **Sec. 20 & 21 Returns (Penyata)**
- **New amendment on BSS**
 - **Reg. 69 Accountability for RS**
 - **Records – locations and descriptions of RS**
 - **Reg. 70 Security and Protection of RS**
 - **to prevent theft, loss or sabotage**
 - **Reg. 71 Notification**

- **Waste Regulations**

- **Part XII Physical Protection and Security**

- **Part XIII Records and Reports**

- ✓ **Inventory**

- ✓ **Release, discharge and dispose records**

Radiation Symbol



Trifoil



Supplement Symbol



Security measures

- **Deter (prevent) unauthorized access**
- **Detect**
- **Delay**
- **Response**

Types of Security

- **Radioactive sources**
 - **Category 1 to 3**
- **Facilities**
 - ✓ **fixed industrial radiography installations;**
 - ✓ **irradiation facilities;**
 - ✓ **treatment rooms where radiotherapy sources are used; and**
 - ✓ **source storage locations.**

Conclusion

- **Remember!!!!**
 - **Our joints responsible:**
 - **To protect people, workers and environment**
 - **To ensure Safety and Security**
 - **Increase awareness**
 - **Self-regulate approach**

THANK YOU