



Regulatory system in Hungary

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Content



- Nuclear program in Hungary
- Legislation in Hungary, recent changes
- Periodic review of the nuclear safety regulations
- Hungarian Atomic Energy Authority



Hungarian nuclear program

- Paks NPP
 - four units VVER-440/213 type reactors
 - commissioned in 1983, 84, 86, 87
 - lifetime extension under preparation
 - provides cca. 40% of domestic electric energy production





Hungarian nuclear program

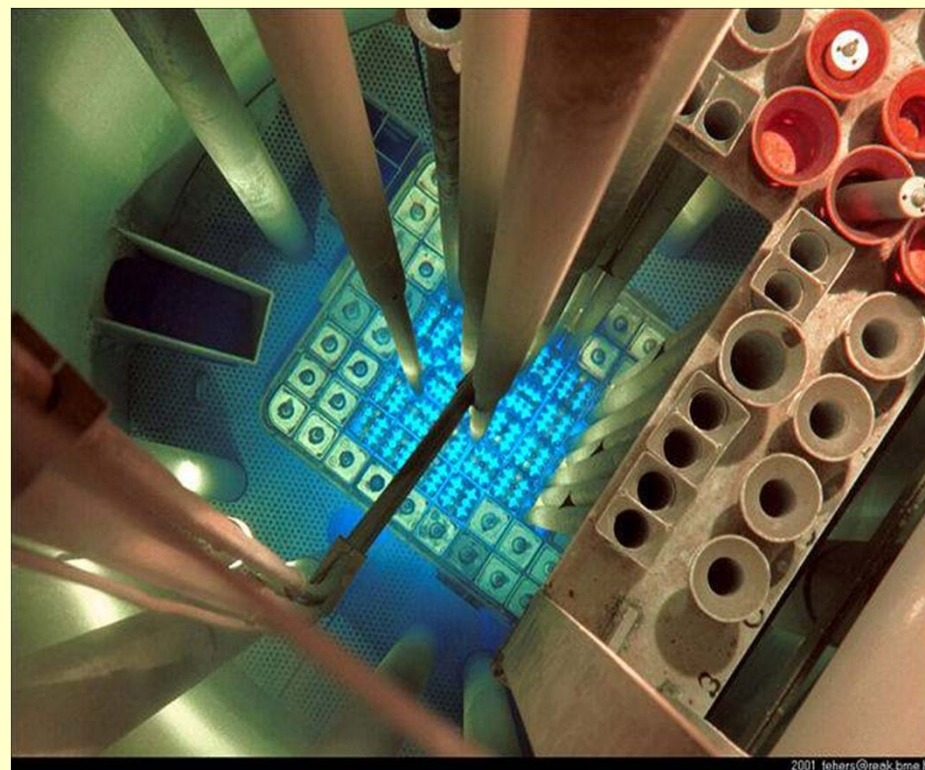
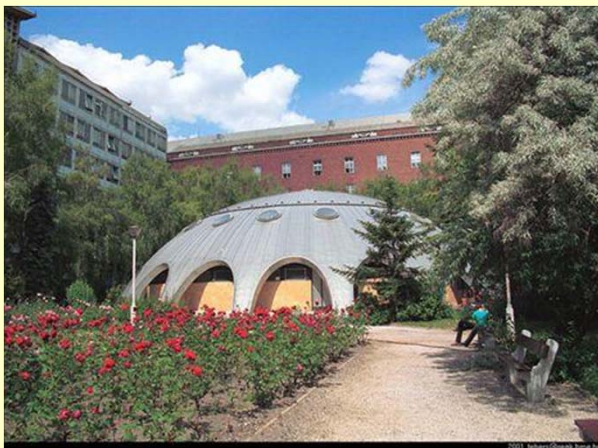
- Interim spent fuel storage facility
 - dry storage for 50 years
 - at the NPP



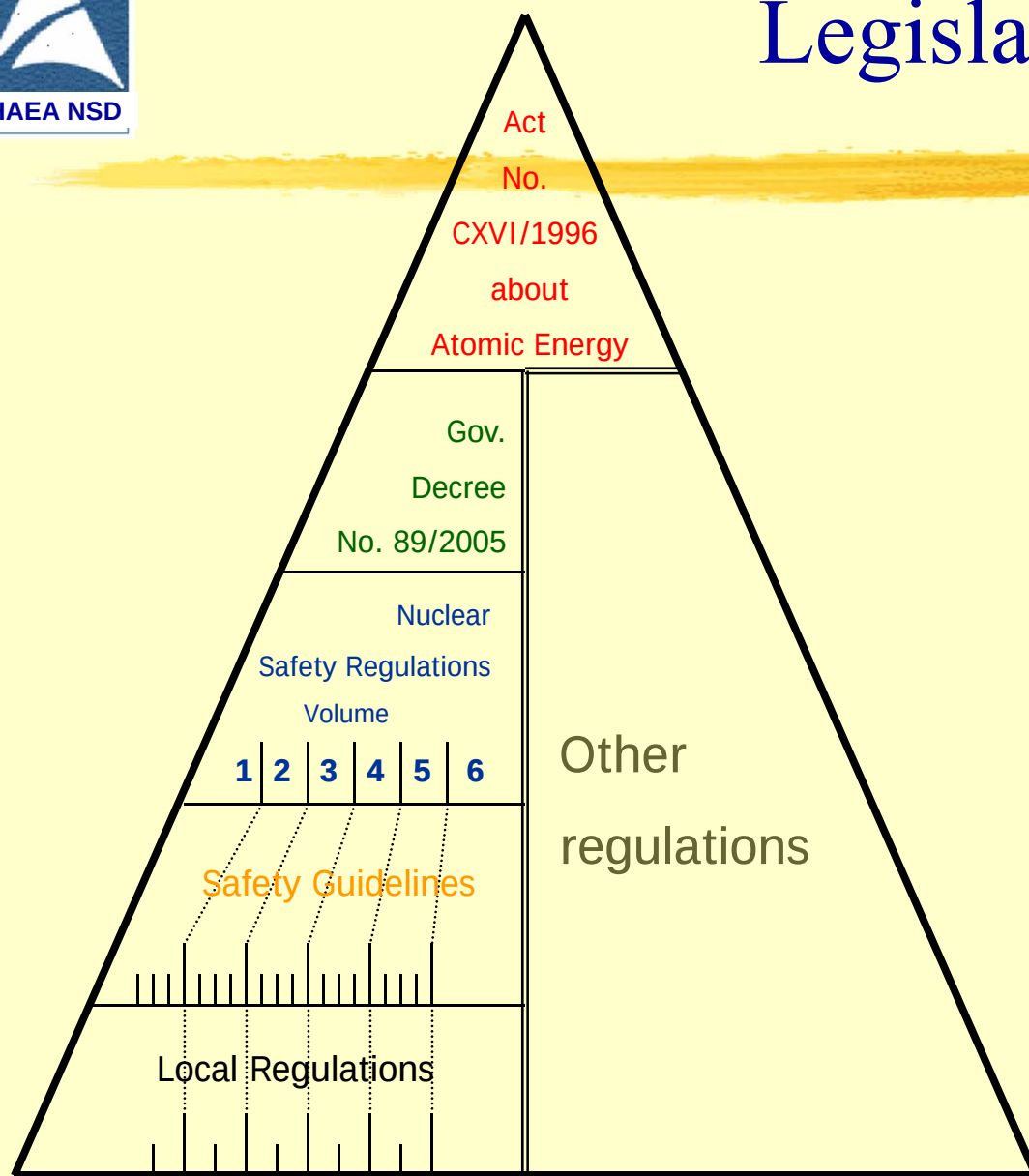
- 10 MWth research reactor
 - VVER-SM
 - KFKI Atomic Energy Research Institute Budapest

Hungarian nuclear program

- 100 kW training reactor
 - operated by the Technical University of Budapest
 - used for education



Legislation in Hungary





Atomic Act

- Declares the independence of the Authority
- Declared:
 - priority of nuclear safety,
 - responsibility of the licensee for safety.
- Prescribes financial support for technical and science activity needed for the authority activities.
- Declares the co-authority involvement
- New changes in atomic act – 2011
 - Shift the focus of regulatory actions (licensing - supervision)
 - Increase the freedom and responsibility of the licensee



Governmental decree (89/2005)

- On the nuclear safety requirements for nuclear facilities and on the corresponding regulatory activity
 - Licensing and inspection of nuclear facilities and operations with nuclear equipment and fuel
 - Enforcing rules and decisions
 - Technical aspects of radiation protection
 - Security
 - Inspection of QA system of licensee and vendors
 - Emergency preparedness
 - QA of operation

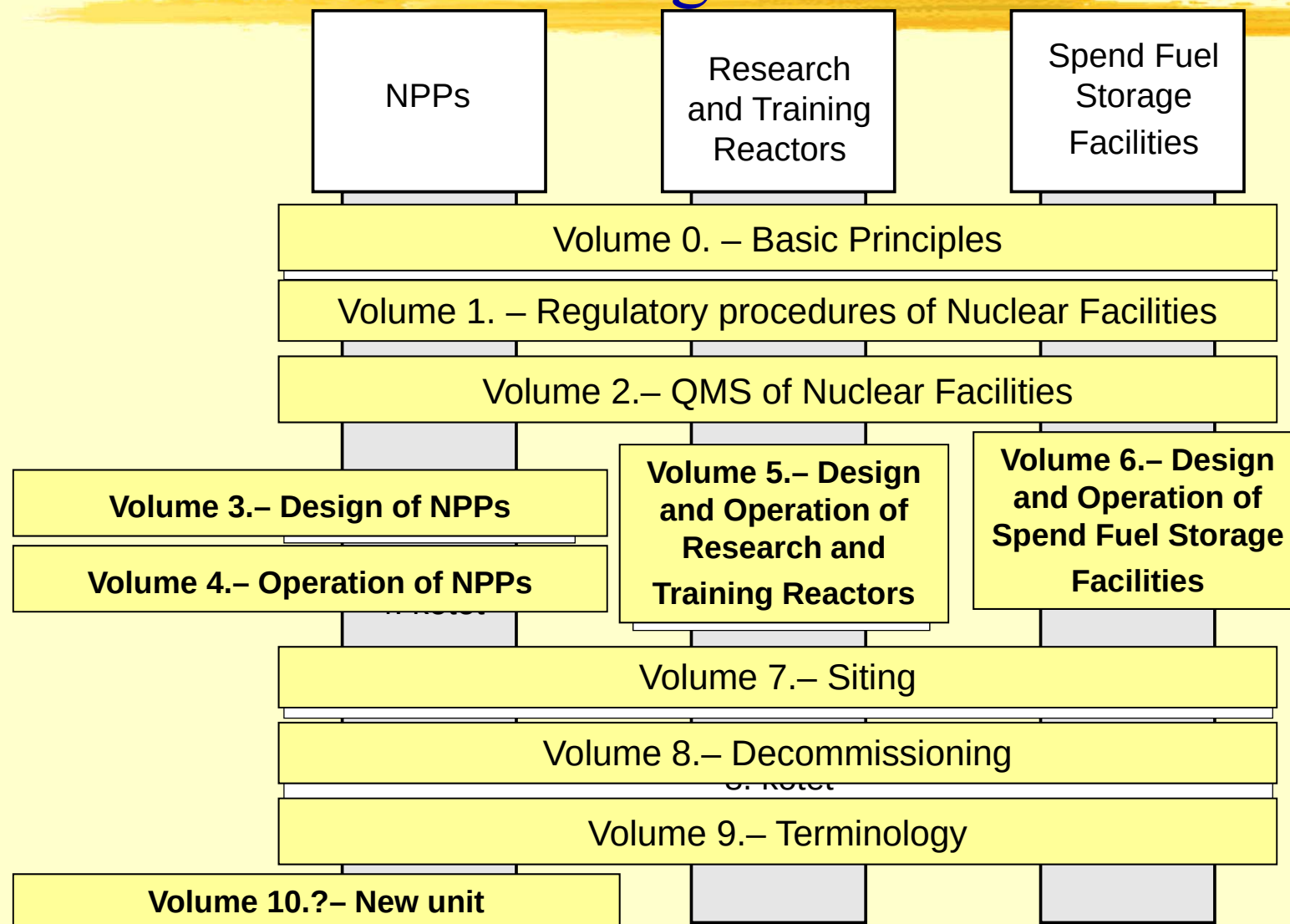


Nuclear Safety Regulation (NSR)

Vol. 1.	Licensing procedures for nuclear power plants
Vol. 2.	NPP quality management requirements
Vol. 3.	General requirements for design of NPPs
Vol. 4.	Operational safety requirements of NPPs
Vol. 5.	Nuclear safety requirements for research reactors
Vol. 6.	Safety requirements for ISFSFs



New Structure of the Nuclear Safety Regulations



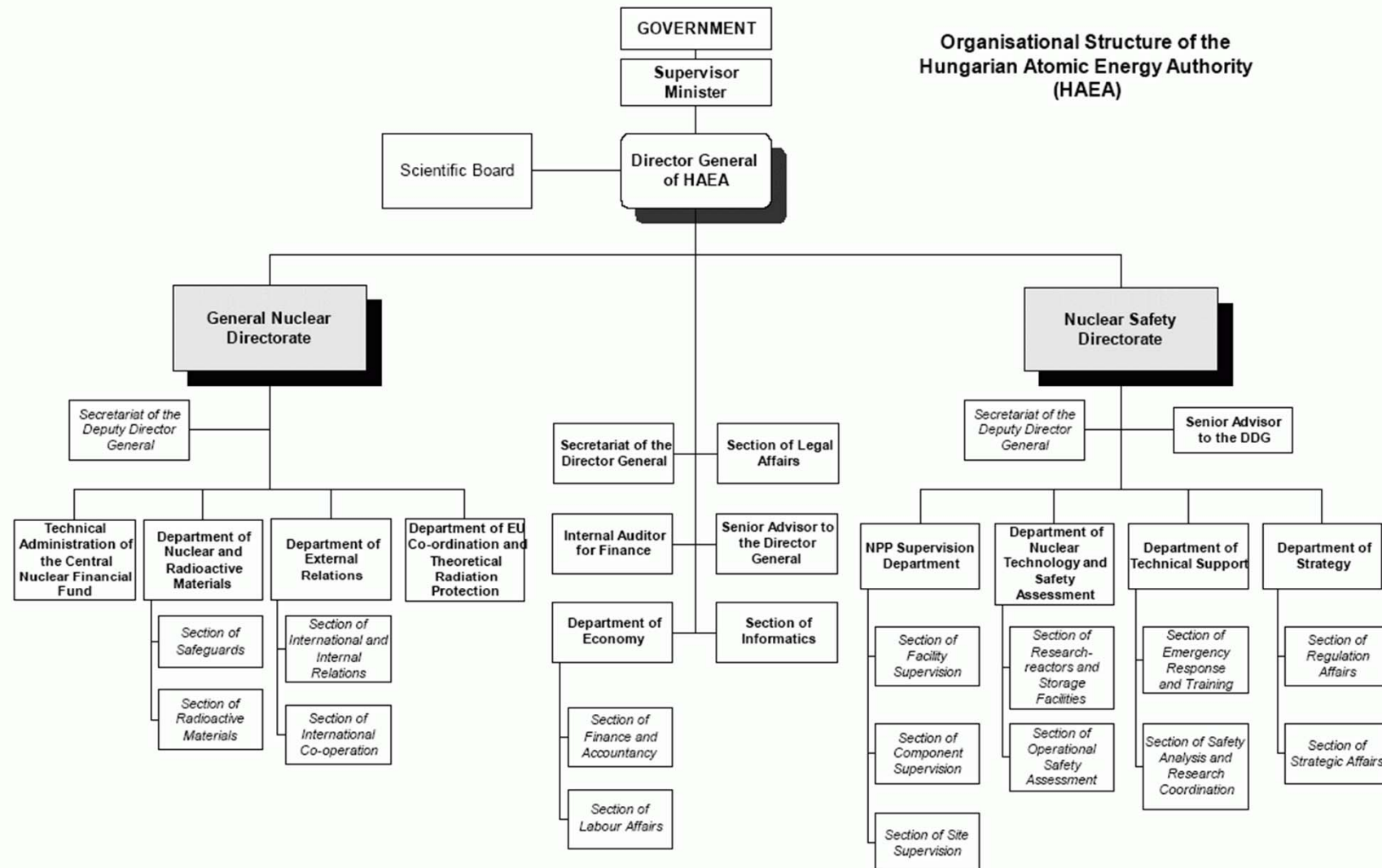


Guidelines

- Practical methods of implementation and enforcement of the NSR
- Using them is not obligatory, but recommended: the procedure of the authority will be simpler and shorter
- In case of any deviation from Safety Guidelines, the licensee must give evidences, that the safety of his solution is the same or better, than the solution suggested by the SG.

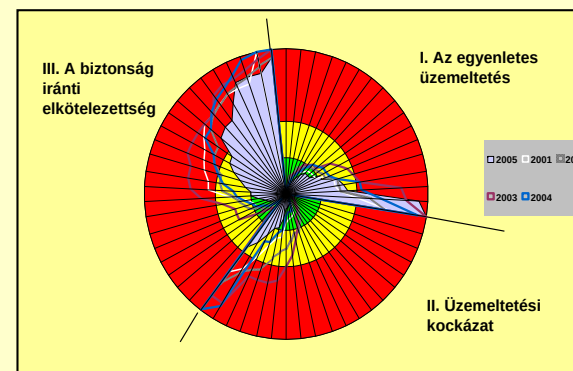


Organization of the HAEA



Nuclear Safety Directorate

- Licensing
 - Establishing, Installing, Extending, Commissioning, Operating, Modifying, Decommissioning
- Surveillance and inspection
 - Inspection plan
- Enforcement
- Safety assessment
 - Comprehensive review 10 years
- Emergency preparedness
- Technical support
- HAEA training





General Nuclear Directorate

- Safeguards
 - Treaty on the Non-Proliferation of Nuclear Weapons
 - State System of Accountancy for and Control of Nuclear Materials
- Export-import of nuclear goods
 - License
- Accountancy of radioactive materials
 - Central registry of radioactive sources
- Central Nuclear Financial Fund
 - to finance the costs of the disposal of radioactive waste, the interim storage and final disposal of spent fuel, as well as the decommissioning (dismantling) of nuclear facilities
- International relations



Homepage

A screenshot of the Hungarian Atomic Energy Authority (HAEA) website homepage, displayed in a web browser window. The browser's address bar shows the URL "http://www.haea.gov.hu/web/v2/portal.nsf/index_en". The website header includes the HAEA logo, the text "HUNGARIAN ATOMIC ENERGY AUTHORITY", a search bar, and navigation links for "MAGYAR VERZIÓ", "LINKS", and "E-MAIL". The date "2011.07.04, Monday" is displayed on the left. The main content area is titled "NEWS" and features a news item dated "10. November 2010." with the headline "Proposal for a Council directive on the management of spent fuel and radioactive waste". The text of the news item discusses the European Commission's proposal for a directive on the management of spent fuel and radioactive waste, mentioning the European Council and Parliament's role. A sidebar on the left contains a list of links under the heading "INTRODUCTION", including "Contacts", "Organisational structure", "Leading officials", "Phone book", and "Brochure on HAEA". Below this, there are sections for "MAIN TASKS", "LEGAL FRAMEWORK", "NUCLEAR SAFETY", "APPLICATION", "NEWS", "DOWNLOADS", and "HOMEPAGE". The Windows taskbar at the bottom shows the system clock as "10:29 2011.07.04." and various application icons.



Homepage of the HAEA

- www.haea.gov.hu
- Organization
- Main tasks
- International relations
- Downloads
- News
- Recent developments in nuclear safety in Hungary
- Hungarian/English





Material for NNRP

- Links of legal documents, some in English
- Homepages of nuclear facilities
- Homepage of HAEA
- Bulletin of HAEA
- International reports (CNS, Joint convention, IRRT)
- Links to co-authorities
- Links to TSOs



Hungarian Nuclear Knowledge Basis

- Gathering, keeping, utilization and up-dating of the knowledge acquired during the usage of nuclear energy

Founding members :

- Hungarian Atomic Energy Authority (HAEA)
- The licensees of the nuclear facilities
- Six leading TSOs of the Hungarian nuclear industry.



Mission of HAEA

To guarantee the reasonably achievable highest nuclear safety in the peaceful application of nuclear energy in Hungary

Thank you for your attention!

