



Decommissioning Regulation in Lithuania

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Nuclear Facilities in Lithuania

✿ Ignalina Nuclear Power Plant

- ✿ Unit 1 (RBMK-1500) in operation 1983-2004
- ✿ Unit 2 (RBMK-1500) in operation 1987-2009



✿ Facilities on the site of Ignalina NPP

- ✿ Interim spent fuel storage facility
- ✿ Radioactive waste storage facility
- ✿ Construction of new interim spent fuel storage facility
- ✿ Construction of solid radioactive waste management and storage facility
- ✿ Preparatory activities for construction of Landfill facility for SLVLLW
- ✿ Preparatory activities for construction of Near Surface repository for SLLILW



✿ Maišiagala radioactive waste storage facility

Priorities for VATESI

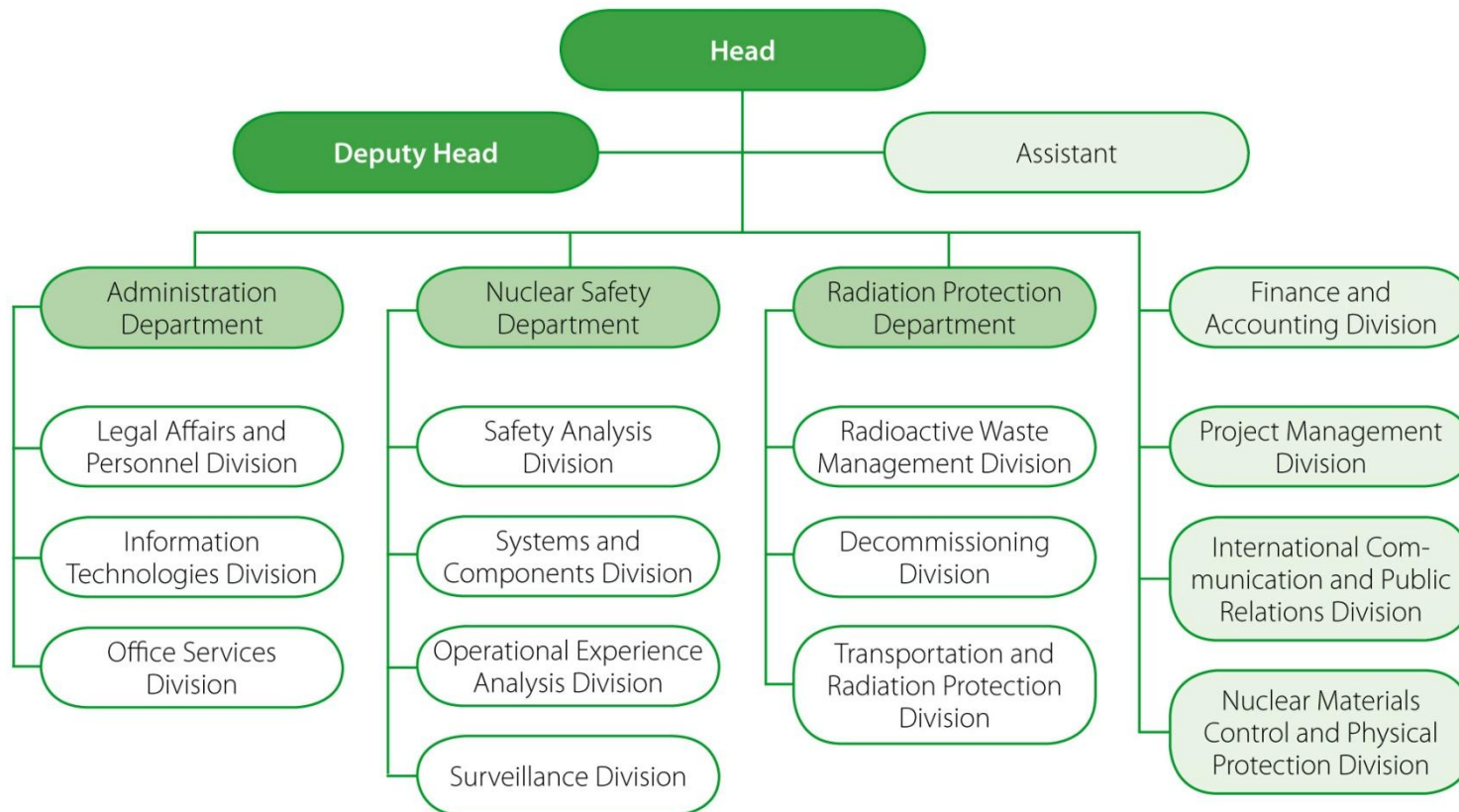
- ❁ **Safe maintenance of Units I and II of Ignalina NPP before and after their de-fuelling**
- ❁ **Safe decommissioning of Ignalina NPP**
- ❁ **Construction, commissioning and safe operation of radioactive waste management facilities**
- ❁ **Preparation for the licensing and supervision of the new Visaginas NPP**

Strengthening VATESI

✿ Organisational structure

✿ Improved/streamlined reporting structure from Aug 2008

VATESI organizational structure



Current legal framework

✿ Requirements for decommissioning of the NPP

- ✿ Decommissioning of the NPP is subject to adoption of a special law on decommissioning of the NPP
- ✿ Currently the decommissioning legal framework targets the Ignalina NPP exclusively
- ✿ The Law on Nuclear Energy provides for mandatory establishment of the decommissioning fund;

✿ Requirements for radioactive waste management

- ✿ The waste producer shall be deemed liable for proper management of radioactive waste until their transfer to the organisation, responsible for its disposal – Radioactive Waste Management Agency
- ✿ The producer's obligation includes financing of the waste management as well

Current review of the legal framework in progress

- ❁ **Law on Nuclear Energy** → Amendment approved on 28 June 2011
- ❁ **Law on Nuclear Safety** → Approved on 28 June 2011
- ❁ **Law on Radioactive Waste Management** → Amendment approved on 28 June 2011
- ❁ **Law on Radiation Safety** → Amendment approved on 28 June 2011
- ❁ **Licensing regulations** → To be reviewed / amended

Funding

- ✿ National decommissioning fund
- ✿ International decommissioning fund
- ✿ Ignalina program

Planning of decommissioning

Planning of state level :

- ✿ National strategy on energy;
- ✿ Law on Decommissioning;
- ✿ Governmental programme on decommissioning;
- ✿ Annual plan of measures of responsible ministry.

Planning of operating organization level:

- ✿ Initial plan on decommissioning;
- ✿ Periodic review of decommissioning plan;
- ✿ Final decommissioning plan;
- ✿ Projects and its safety justification.

Decommissioning planning (1)

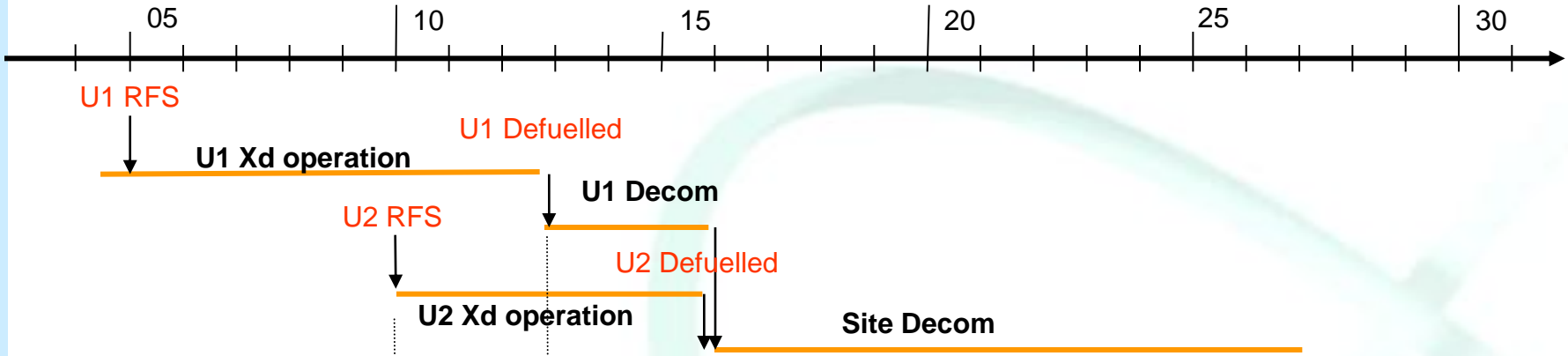
- ✱ Preliminary planning
 - ✱ before construction license
 - ✱ periodic review
- Final plan
 - ⑩ 2 years before shut down

Decommissioning planning (2)

Final decommissioning plan shall include:

- ✿ description of INPP and operating history;
- ✿ chosen decommissioning strategy;
- ✿ description of proposed decommissioning activities;
- ✿ description of decommissioning organization;
- ✿ description of proposed methods of waste management, including hazardous and mixed waste;
- ✿ description of safety and radiation protection procedures;
- ✿ description of quality management;
- ✿ estimate of decommissioning cost and etc.

Licenses



Dismantling steps/authorizations

