

National Report: PHILIPPINES



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R²D²P: Workshop on “Decommissioning Technologies”
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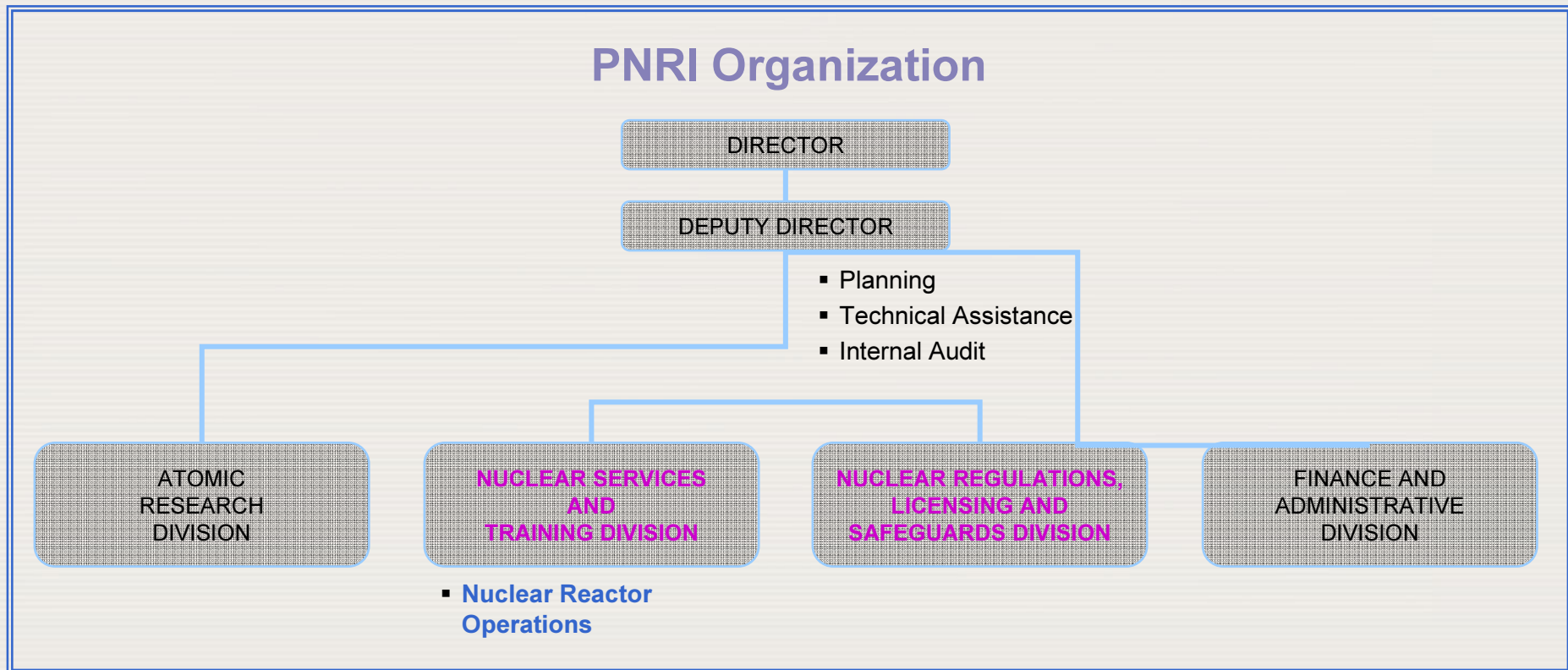
IAEA

International Atomic Energy Agency

Regulatory Framework:

Is an independent regulatory body in place?

- Regulatory body – not yet independent



Regulatory Framework:

Actions taken to correct situation

- Draft Law “**Comprehensive Nuclear Regulations Act of 2007**” creating an independent regulatory body also **covers decommissioning**, among others
- This legislation for the separation of the regulatory body is at the Congressional Committee level
- Further refinement of the bill is being made by a Technical Working Group that includes the Department of Health and the Philippine Nuclear Research Institute and other stakeholders.

Regulatory Framework:

Actions taken to correct situation

- Regulation of the PRR-I through the PNRI Internal Regulatory Control Program
 - **PNRI Internal Regulatory Control Program** an internal authorization process for PNRI nuclear and radiation facilities and laboratories, operationalized on January 20, 2004, with the creation of the Radiation Safety and Security Board (RSSB). Regulations applied to external licensees also imposed on PNRI facilities.
 - PNRI Office Order No. 002, Series of 2008 - Rules for the Authorization of PNRI Radiation Facilities and Laboratories
 - **PNRI Office Order No. 005 Series of 2008 on the subject Rules for the Authorization of Philippine Research (Extended Shutdown and Decommissioning)-**

Regulatory Framework:

Actions taken to correct situation

- Regulatory requirements for non-radiological hazards from:
 - Department of Environment and Natural Resources (DENR) for environmental issues
 - Department of Labor & Employment (DOLE), Occupational Health & Safety Agency (OSHA) is responsible for workers safety
 - Demolition of physical infrastructures in general, shall comply with the demolition procedure in accordance with the National Building Code of the Philippines (PD 1096) - enforced by local government
- to be incorporated in NRLSD requirements

License/Authorization:

Does the RR have a valid license or other official form of authorization from the regulator?

- PRR-1 was exempted by national laws from the requirement for a license during its operation.

License/Authorization:

Type of license / authorization

- Currently, under the Internal Regulatory Control:
 - Granted **Authorization to maintain its shutdown** condition on May 21, 2007 – expired on May 2008
 - Granted “Permission with Conditions” to perform some activities in preparation for doing a characterization survey on February 12, 2008

License/Authorization:

Explain actions taken to correct a 'no license' situation

- Currently, discussions with Regulator ongoing (under negotiation) where:
 - **Regulatory body** – wants Operator to have an initial decommissioning plan so that a decommissioning license can be provided, whereas:
 - **Operator** – requests for a partial license to be able to conduct activities one at a time, e.g. characterization survey

Decommissioning planning / implementation

Is a decommissioning plan available?

- Initial Decommissioning Plan – none but started
- Components of the plan that have been completed include:
 - Reactor description
 - Characterization survey plan
- Components of the plan (concepts only)
 - Decommissioning strategy
 - Key decommissioning activities & schedule (e.g. preparation of waste storage, management of fuel, decontamination of some areas, reactor pool, etc.)
 - Surveillance & Maintenance
 - Waste Management
 - Environmental assessment

Decommissioning planning / implementation

Explain actions taken to finalise a decommissioning plan or explain progress of implementation / timeline / size of the planning or implementation team

- Components of the plan that need to be conceptualized / developed are:
 - Safety assessment
 - Cost estimate and funding agency
 - Health and safety plan
 - Quality assurance
 - Emergency planning and preparedness
 - Time line
- The plan will be completed and further refined after the characterization survey

Decommissioning planning / implementation

Explain actions taken to finalise a decommissioning plan or explain progress of implementation / timeline / size of the planning or implementation team

Currently – awaiting authorization for characterization survey as discussion with Regulator still on-going

- Target time to develop an initial decommissioning plan – EO 2009
- Size of planning / implementation team (~15 people – but not full time)

Decommissioning cost calculation / funding

**Has a decommissioning cost calculation been carried out? /
Explain actions taken**

- **Decommissioning cost calculation**
 - Not yet done but will follow the bottom-up approach according to previous workshop
 - Ancillary costs such as waste storage and fuel storage will be included
- Cost calculations will be started upon completion of characterization survey

Decommissioning cost calculation / funding

Explain funding.

- Funding sources – some funds not yet secured but considers several options:
 - PNRI annual budget (GAA)
 - budget (to be requested over 3 year period)
 - Funds obtained for additional waste storage
 - DOST – GIA (funds obtained for characterization survey)
 - IAEA (TC) (training, equipment, expert missions)

Issues / Challenges

- **Technical** – training / research on methods on the following:
 - fuel storage design and security aspects
 - analytical radioactivity measurements
 - Dismantling technologies
 - Cost calculation

Issues / Challenges

- **Legal / regulatory**
 - Proposed Bill on regulatory independence still pending
 - Not all aspects of clearance levels fully covered
 - No experience in decommissioning reactors

Issues / Challenges

- **Administrative**
 - With the shutdown extended to 20 years, Reactor staff became committed with other responsibilities so that time with the project is not full time
 - Other staff involved not from the Reactor Unit could not commit full time responsibility
 - Funding for the actual decommissioning still not clear – prior to submission of costing requirements