

1st Technical Meeting on the Resesarch
Reactor Decommissioning Demonstration
Project

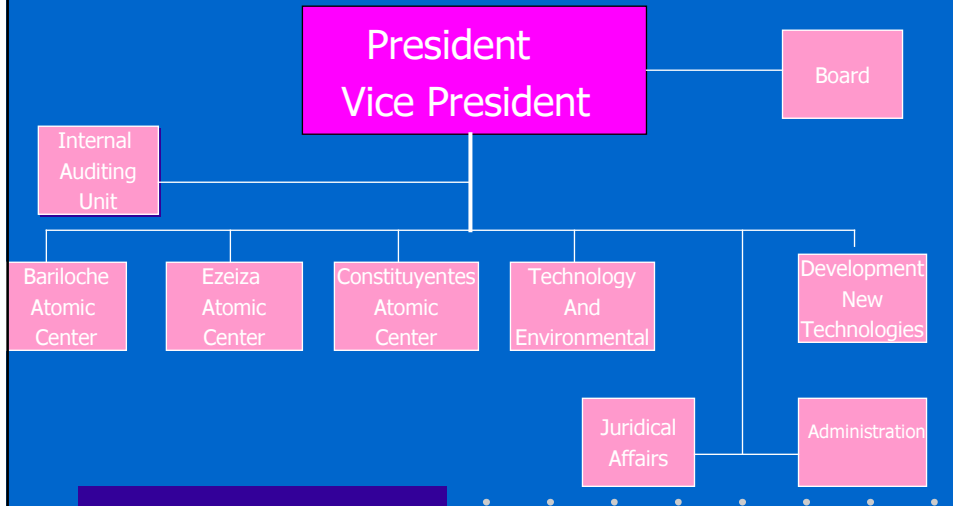
June 26-30 Manila, Philippines



Roberto Anasco
National Atomic Energy Commission



CNEA ORGANIZATION CHART



NUCLEAR POWER REACTORS

UNIT	TYPE PWR	GRID CONNECTION	STATUS	OPERATOR
Atucha I	PHWR 340 Mwe	1974	Operation	Nucleoelectrica Argentina
Embalse	PHWR 600 Mwe	1984	Operation	Nucleoelectrica Argentina
AtuchaII	PHWR 692	-----	Construction	Nucleoelectrica Argentina

RESEARCH REACTORS AND CRITICAL ASSEMBLIES

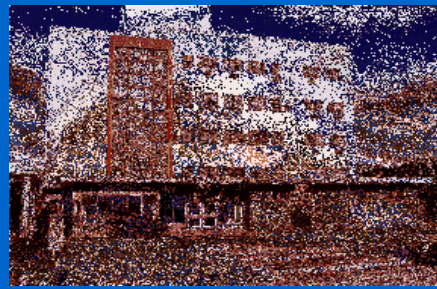
UNIT	TYPE	FUNTIONING	LIFE CYCLE PHASE	OPERATOR
RA-0	^{235}U 20% 1Wt	1970-	OPERATION	CORDOBA UNIVERSITY
RA-1	^{235}U 20% 40kwt	1958-	OPERATION	CNEA
RA-2	^{235}U 90% 1Wt	1966-1983	DISASSEMBLED	-----
RA-3	^{235}U 20% 5Mwt	1967-	OPERATION	CNEA
RA-4	^{235}U 20% 1Wt	1971-	OPERATION	ROSARIO UNIVERSITY
RA-6	^{235}U 90% 60.5 Wt	1982-	OPERATION	CNEA
RA-8	^{235}U 3.4% 10 Wt	1997-	OPERATION	CNEA ₅

RA-1



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RA-3



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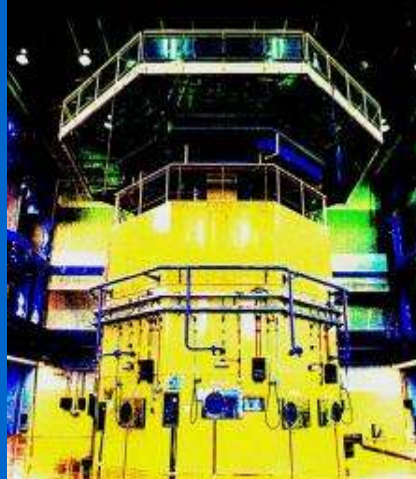
RA-6



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RA-6



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REGULATORY APPROACH ON DECOMMISSIONING OF NUCLEAR INSTALLATIONS

“The Nuclear Regulatory Authority is in charge on Nuclear Activity Regulations and Control Concerning Radiological and Nuclear Safety, Safeguards and Physical Protection”

National Law 1997

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REGULATORY APPROACH ON DECOMMISSIONING OF NUCLEAR INSTALLATIONS

APPLICABLE REGULATIONS TO THE DECOMMISSIONING STAGE:

- **Licencing of Relevant Nuclear Installations**
- **Basic Standard for Radiological Safety**
- **Decommissioning of Nuclear Power Plants**
- **Radioactive Waste Management**

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REGULATORY APPROACH ON DECOMMISSIONING OF NUCLEAR INSTALLATIONS

According to chapter I, Art. 2.e of the National Law N° 24804 ruling nuclear activities CNEA “ Is responsible for determining the procedure for decommissioning Nuclear Power Plants and any other relevant radioactive facilities.”

The implementation the Nuclear Law, states that CNEA is responsible for decommissioning of all relevant radioactive facilities in the country, at end of life.

Consequently in May 2000 CNEA created a D&D branch within its Unit of Technology.

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D&D ACTIVITIES

The main objective of the D&D activities are to evaluate and program the best alternative for the Decommissioning of the Nuclear Facilities, in a reasonable time, taking into account the amount of radioactive waste generated.

To accomplish this objective, this branch

- a) Coordinates the training of personnel and organizes the experience and technical knowledge already existing in CNEA and members of the argentinian nuclear sector.
- b) Coordinates a R&D program on D&D technologies.
- c) Establishes close links with the operators of nuclear facilities, whose participation both in planning and in actual D&D work is considered extremely important.

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D&D ACTIVITIES

A) Taking advantage from international experience, CNEA has established cooperation agreements with:

- IAEA
- DOE, United States of America.
- Forschungszentrum Karlsruhe, FRG.
- Enresa, Spanish Corporation.

B) A R&D programme was started to develop D&D technology, and to solve problems arising from the unique design of the Atucha-type NPP's. A solid technological background will allow to reduce decommissioning costs.

C) In accordance with CNEA traditional policy, development of local contractors will be done whenever possible.

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D&D ACTIVITIES

- Dismantling of RA2 Critical facility at CNEA Constituyentes Atomic Center.
- Characterization, decontamination and disposal of Atucha I coolant channels and miscellaneous equipment and components.
- Removal and repair of internal parts of CNA I NNP due to the breakage of the R06 fuel channel in 1998.
- Preliminary planning and radiological characterization of two CNEA research reactors.

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**THANK YOU FOR YOUR
ATTENTION**

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