



# Internal Regulatory Control Program of PNRI Facilities/Laboratories

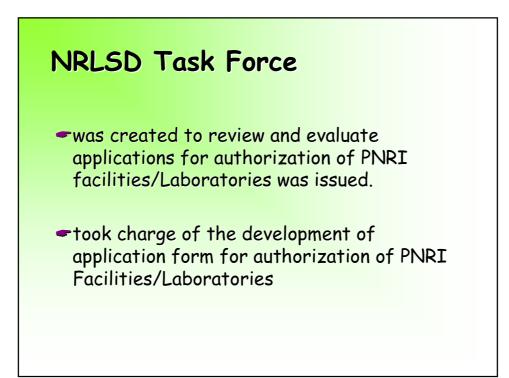
- was established thru PNRI Office Order 002 Series of 2004
- in accordance with the PNRI Policy Instruction No.02 Series of 2001 entitled Radiological Health and Safety Policy

# **Coverage of Implementation of the Internal Regulatory Program**

- Philippine Research Reactor (PRR-1)
- Co-60 Multi-Purpose Irradiation Facility
- Radioisotope Dispensing Laboratory
- Radioactive Wastes Management and Interim Storage Facility
- Secondary Standard Dosimetry Laboratory and
- other PNRI research laboratories where radioactive materials are used and handled

#### Nuclear Regulations, Licensing, & Safeguards Division (NRLSD)

- was tasked to take the responsibilities to implement the Program
- Consists of the following Units:
  - Standards Development Unit
  - Licensing, Review, and Evaluation Unit
  - Inspection and Enforcement Unit
  - Safeguards Unit
  - Radiological Impact Assessment Unit





Radiation Control Programme

Safety Analysis Report (SAR)

Decommissioning Plan

# Radiation Control Programme

To ensure that PRR-1's radiation protection and monitoring system remains in operable condition during the period of extended shutdown and eventual decommissioning.

#### Safety Analysis Report (SAR)

The purpose is to justify the design which is to be the basis for the safe extended shutdown and decommissioning of the research reactor.

#### The SAR should provide the following: General description of the facility Safety objectives Site characteristics Buildings and structures Reactor Description and Design Reactor coolant systems and connected systems Engineered safety features Instrumentation and control Electric power Auxiliary systems Radiological safety procedure Conduct of activities during extended shutdown Administrative and surveillance requirements Quality assurance

#### **Decommissioning Plan**

- a description of the experience, resources, responsibilities and structure of the decommissioning organization, including the technical qualification/skills of the staff;
- an assessment of the availability of special services, engineering and decommissioning techniques required, including any decontamination, dismantling and cutting technology as well as remotely operated equipment needed to complete decommissioning safely;
- an assessment of the amount, type and location of residual radioactive and hazardous non-radioactive materials in the nuclear reactor installation, including calculational methods and measurements to be used to determine the inventory of each;
- a description of the waste management practices

### Requirements for Waste Management Practices

- identification and characterization of sources, types and volumes of waste;
- criteria for segregating materials;
- proposed program for waste processing, storage, or transport to radioactive waste management facility of radioactive waste packages or disused sources;
- the potential to reuse and recycle materials;
- anticipated discharges of radioactive and hazardous non-radioactive materials to the environment

