**SATTAR SIR, SLIDE:2, PRINCIPLES OF RWM:`**

**1.CLASSIFICATION OF WASTE:**

1. High Level Waste: SF, Fuel reprocessing, Long lived alpha emitters
2. Intermediate Level Waste: NORM, Nuclear Industry
3. Low Level Waste: Long lived radionuclides, containment for few hundred years
4. Very Short-Lived Waste: medical uses, research facility
5. Very Low-Level Waste: doesn’t require any protection
6. Exempted Waste: Such low radioactive content which no longer requires to be controlled by regulatory Authority.

**2.FUNDAMENTAL SAFETY OBJECTIVE:**

To protect people and environment from harmful effects of ionization radiation.

1. From this, 10 safety principles were derived.
2. It should be fulfilled without unduly limiting operation of facility/activity.
3. Applies through entire lifetime from planning to decommissioning

3**.TO ENSURE HIGHEST STANDARD OF SAFETY:**

1. To control the radiation exposure and release of radioactive material.
2. To restrict events that might lead to lose control of a core, chain reaction, radioactive source
3. To mitigate consequences of such events if they were to occur.

**4.FUNDAMENTAL PRINCIPLES**

1. **PROTECTION OF HUMAN HEALTH:**

Radioactive waste shall be managed in such a way as to secure an acceptable level of protection for human health.

1. **PROTECTION OF ENVIRONMENT:**

To provide an acceptable level of protection of the environment.

1. **PROTECTION BEYOND NATIONAL BORDERS:**

To assure that possible effects of human health and environment beyond national borders will be taken into account.

1. **PROTECTION OF FUTURE GENERATIONS:**

Predicted impact on health of future generations will not be greater than relevant levels of impact that are acceptable today.

1. **BURDENS ON FUTURE GENERATION:**

Will not impose any undue burdens on future generation

1. **NATIONAL LEGAL FRAMEWORK:**

With an appropriate national legal framework including clear allocation of responsibilities and provision for regulatory framework.

1. **CONTROL OF RADIOACTIVE WASTE GENERATION:**

Generation of radioactive source should be kept to the minimum practicable.

1. **RW generation and management interdependencies**

Interdependencies among all steps in RW generation & management shall be appropriately taken into account.

1. **SAFETY OF FACILITIES:**

The safety of facilities for radioactive waste management shall be appropriately assured during their lifetime.