

Safety is knowledge based: what does this mean?

Barrier effectiveness and defense in depth

- Design safety of processes, components and safety equipment
- Neutronics/criticality
- Ageing
- Radiation protection design
- Discharge and waste management
- Integration of concepts, including security

- Radioecology Polluted sites
- Radiobiology Grace effects
- Epidemiology

- Metrology/Dosimetry
- Workers
- Patients
- Public
- Environment

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Societal approach to risk

- Communication/information/transparency
- Pluralism/risk control
- Risk perception
- Economics of nuclear risks
- Local economy sensitivity

Barrier integrity during accident situation

- Natural phenomena (earthquake, flooding...)
- Predictable technological events (internal: fuel, external: grid...)
- Fire
- Human and organizational factor
- Malicious acts
- Theft of nuclear materials/radioactive sources

Emergency situations

- Current and future state of safety barriers, components and safety equipment
- Mitigation systems
- Anticipation of radioactive releases /environmental dispersion

(external/internal) radiation doses s/therapies