Comprehensive Evaluation of Nuclear Waste Management Systems

Dual Purpose Cask Safety Evaluation - Expertise in Dry Storage

- Analyses of criticality safety, radiation fields and heat removal during transport and storage of spent fuel and high level radioactive waste

- Certification of technical aspects with regard to transport and storage during loading of casks on behalf of authorities

- Evaluation of activity release and radiological effects of emission during incidents and accidents

- Evaluation of inventories, radiation protection and shielding calculations with state of the art computer codes, e.g. MCNP, MicroShield

- Expertise in safety analyses of all kinds of radioactive waste and spent fuel containers

- Safety evaluation of storage systems under normal operation, accident conditions and container transport after interim storage

- Evaluation of long term safe enclosure (e.g. seal performance, screws, weldings, corrosion effects, degradation by radiation)

- Safety evaluation of quality assurance aspects

- Competence in material performance evaluation (e.g. metals, concrete, polymers)

- Experimental testing and numerical analyses (e.g. FE simulations) of mechanical and thermal loads

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