

Precise prediction of dose rates, improved shielding efficiency, and full scope monitoring

Support in the complex licensing and in services relating to radiation protection for the environment, employees and patients.

Challenge

Medical facilities are faced with complex licensing regarding radiation protection for the environment, employees and patients.

This includes the planning of new facilities as well as modernization, regular monitoring and reporting.

Medical applications cover the whole range of decay branches, source types and energy. E.g. Alpha or beta radiation sources which can be closed or open, but also high energy particle accelerators.

Solution

Framatome has vast experience in designing and licensing facilities handling radioactive sources – from very low dose rates up to HLW¹.

From design and support in operations to dismantling, our experts deliver high quality service in the following areas: radiation protection planning, e.g. by classification, complex particle transport calculation, activation analysis.

This allows dose assessment and dose follow up with state-of-the-art methodology and reporting to ensure authority approval. Our expertise and our offered trainings are the key to minimizing radiation doses.

We also provide safety analyses and assessments by deterministic and probabilistic methodologies e.g. for hazards. Furthermore our accredited laboratory offers several services, such as secretion analysis.

Customer benefits

- State-of-the-art safety analysis and documentation
- Huge knowledge base for trainings
- Accredited laboratory for investigations and monitoring
- Supplier with nuclear qualification

Your performance
is our everyday **commitment**

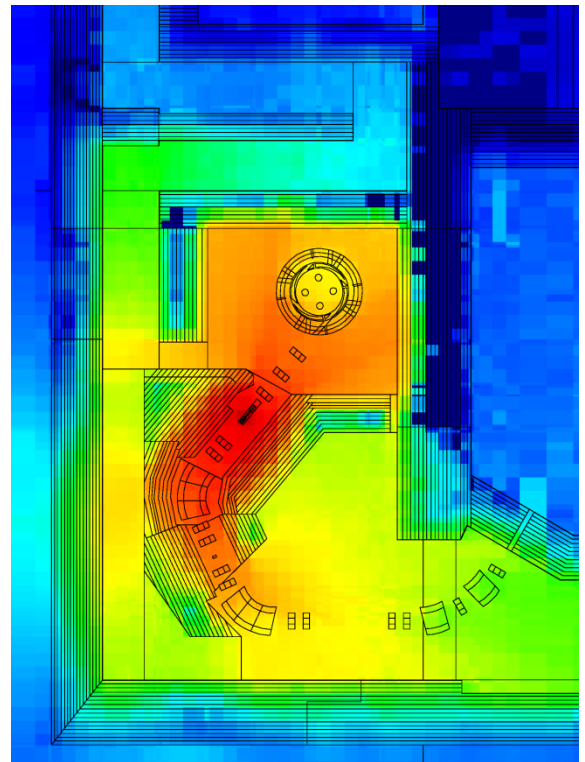


Fig. 1: Dose Distribution of Proton Therapy Center calculated with MCNP.

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1) HLW – High Level Waste