

An alternative layout proposal for ISOLDE Target Area

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This is an alternative conceptual design of a target area layout of ISOLDE. This concept will require shielding consolidation and a different approach to operational scenarios. In a first approach, this design focuses on the handling and maintenance aspects for future upgrades in the target area. The increase of radiation levels due to higher proton beam current and energy after LS3 will complicate personnel access into the target area. This concept also has the advantage of having a minor impact on the actual beam line distribution. The increase of available areas on the two new floors (2x700 m²) offers many opportunities for future evolution such as a radioactive off-line mass separator, an additional Class A laboratory, radioactive storage and repair areas. This solution also has the advantage of respecting the minimal allowed distance (10m for a visible building) from the French border.

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