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Development of offline ISOL test facilities at SCK•CEN

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In order to support the design of the first phase of ISOL@MYRRHA, which will operate with 100-MeV protons at intensities up to 500 μA , SCK•CEN is currently developing offline facilities, including a thermal test stand and an ISOL system coupled to a laser laboratory. The aim is to develop a Target Ion Source Assembly, targets and ion sources that can properly use the aforementioned proton beam, but also to evaluate design decisions concerning beam optics and diagnostics, laser beam transport and remote handling.

The thermal test stand with a first conceptual TISA vacuum vessel has been completed and will soon test a first target container design. The ISOL setup and the laser laboratory will be realized in the coming two years. In this contribution we want to introduce these facilities and some of the design aspects.

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