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Status of work of the Juelich contribution to the ESS Target Station Design Update Phase

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Abstract

As part of the work for the design-update-phase for the planned European Spallation Source (ESS) Juelich is participating in the conceptual and design work on the target system, the moderators and reflector as well as on layout and design of the target shielding monolith including the beam extraction system. This design update considers all boundary condition to the target station due to the change of the target system from the Hg-stationary container target to a helium cooled rotating target. In addition operation experience gained since 2003 at the two new megawatt class spallation sources SNS and J-PARC will have an influence on the design update. This paper will give an overview of the work done in Juelich.