

## CSNS remote handling system and PIE plan

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The remote handling system is an important part of the target station and an important guarantee for the safe, stable and efficient operation of the China Spallation Neutron Source (CSNS) facility. Since CSNS formal operation began in 2018, the remote handling system has generally been operating well and a significant amount of remote handling operations have been successfully completed for target station maintenance objects such as targets, shutter inserts and ion exchange resins, etc. This report will first introduce the operation and maintenance experience summary of the remote handling system as well as the problems and challenges encountered. Secondly, it will also introduce the progress of CSNS-II Remote Handling System for neutron source target station upgraded to 500kW and new muon source target station. Finally, it will discuss the R&D on key technology/equipment for remote handling system and PIE plans for supporting the better development of higher power target station in the future.

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