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Overview of Modified Design Features of SMART-C

Small Modular Reactor (SMR) has gained global attention owing to its numerous advantages. SMART (System-integrated Modular Advanced Reactor) is one of the most verified SMR designs which has obtained Standard Design Approval (SDA). Recently, a variation of SMART100 (System-integrated Modular Advanced Reactor100), has been suggested. The newly proposed reactor, SMART-C is an advanced concept of the SMART100 in terms of portability and economic viability. The portability of the SMR is vital for the application of the SMR in rural areas and various industries including oil sand industries. In order to achieve these aspects, design modifications have been conducted on SMART100. The design modifications include; weight reduction of the reactor pressure vessel and simplification of the safety systems. In this study, the modified design features of SMART-C are summarized and presented. Furthermore, the associated issues are addressed.

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