



Contribution ID: 163

Type: Oral

Integration of different design system standards of 'Linglong-1' SMR project

Abstract: At present, civil nuclear power design at home and abroad follows a number of standard systems, and the requirements of different standard systems differ in some areas. Hainan Changjiang 'Linglong 1' SMR demonstration project is based on China's mature pressurised water reactor design experience, combined with other advanced nuclear power design and technology concepts, independent design and construction of small modular pressurised water reactors, this paper discusses the small reactor demonstration project in the process of adopting advanced design and technology concepts of its applicable ASME, This paper discusses the process of mutual integration of ASME, RCC-M and domestic standard systems in the process of adopting advanced design and technology concepts in the SMR demonstration project, cites relevant examples, discusses the experience of standard integration method, and provides a reference for the standard integration of other subsequent projects.

Keywords: SMR; Linglong-1; standards system convergence; RCC-M; ASME

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Track Classification: Topical Group A: SMR Design, Technology and Fuel Cycle: Track 3: Engineering, Codes & Standards, Supply Chain, Operation and Maintenance of SMRs