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Research on Digital Intelligent Operation and Maintenance Technology for SMR

Abstract: The SMR 'Linglong-1'(ACP100) developed by China National Nuclear Corporation (CNNC) has been favoured by domestic and international markets due to its inherent safety, flexibility of deployment and wide range of applications. This paper introduces the application of digital technology in the operation and maintenance of SMR on the premise of ensuring safety, improving the level of automation and intelligence in the operation and maintenance of small reactors through the research of intelligent operation and control technology, intelligent monitoring and diagnosis technology, intelligent inspection and surveillance technology, and intelligent maintenance and management technology, so as to enhance the advantages of SMR in the new round of nuclear energy technological change and international industrial competition.

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