

The Influence on the Design of Chinese Nuclear Power Plants Based on Fukushima Accident Feedback

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The Chinese nuclear safety regulation HAF102-2004 is based on IAEA Safety Standard Series No.NS-R-1“Safety of Nuclear Power Plants : Design”(2000). NS-R-1 was superseded by No.SSR-2/1, with the establishment of the long-term set of Safety Standards in 2012. According to the feedback of Fukushima nuclear accident, SSR-2/1 is revised and some augmented requirements are put forward, which will be published in 2015. The different requirements of SSR-2/1 and NS-R-1 are identified in this article, and the revision of SSR-2/1 and the strengthened requirements are reviewed and interpreted, and also the trend of safety design requirement is discussed. Further, compared with the current Chinese nuclear safety regulation, the influence on the design of Chinese nuclear power plants is analyzed.

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