

The digital technology development in Instrument and Control system of nuclear power plant

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As the central nervous system of nuclear power plant, the Instrument and Control (I&C) system plays a key element in the running of the plant on the safe side. The I&C technology development process and the distinguishing feature are introduced from the analog to the digital agenda in this paper including the generation-2, generation-2 plus and the generation-3 nuclear power technology. And some influence factors are put in the development process, such as the system opening to outside, the common cause fault, the reliability in the serious accident.