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Plant Operability Margins Evaluation for Kori Unit 2

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Abstract

Korea Electric Power Research Institute is performing the relaxation of SG tube plugging(SGTP) level from 5% to 15%. The purpose of this study is to provide a discussion of the operating margin to the various Reactor Trip and Engineered Safety Features (ESF) actuation setpoints during steady-state and normal (Condition I) operating transients at the 15% SGTP conditions. Three Condition I transients, such as, 50% Step Load Rejection from 100% power, 10% Step Load Increase from 90% power and 5%/minute Ramp Load Increase from 15% to 100% power were analyzed. It is concluded that sufficient margin exists to various reactor trips and ESF actuation setpoints for the relaxed SGTP.