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**Validation of WWER-1000 Thermal-Hydraulic Model for RELAP5/mod3.2
Computer Code for Evaluation of Reactor Vessel Thermal Shock Conditions**

The WWER-1000 reactor model for RELAP5/mod3.2 computer code is validated. The model includes detailed modeling of the downcomer by dividing it azimuthally into 20 vertical channels with crossflow junctions. The measured parameters for the failure of the Rivne-3 pressurizer safety valve to close are used as experimental data. The model is applied to evaluate reactor vessel thermal shock conditions.

Keywords: reactor vessel, computer model, pressurized thermal shock (PTS), downcomer mixing, flow stratification, validation