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Determination of Systematic Error and Dispersion of Estimated Sequence CSAS26 of the SCALE-5 Software Package for Hexagonal Geometry

SCALE software package versions 5.0 and 5.1 have been validated for modeling the WWER-1000 fuel during criticality calculations. Based on modeling of 60 critical experiments, the systematic error and dispersion of estimated sequence CSAS26 of the SCALE package responsible for criticality calculations have been determined.

Key words: SCALE, validation, neutron multiplication factor, critical experiment, systematic error, dispersion.