

VVER440 Core Nodalisation and Visualisation

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Abstract

Development of core nodalisation of VVER440 reactors with tools mainly focused onto western type reactors leads to number of compromises and engineering adjustments of modelling, when taking into account generic code models.

The recent reactor vessel and core modelling using MELCOR 1.8.5 RK code version is presented, with emphasis given onto new developed visualisation of the thermohydraulics in the reactor vessel and visualisation of core degradation. The visualisation allows tracking of thermohydraulic parameters in a convenient compressed form of display.