

The invention concerns the control method for working parameters of nuclear reactor active zone on water under pressure including value (FH, FB, TBC, TBF, Q) measurement stage characterizing reactor active zone operation environment, evaluation phase of effective values (T_{moye} , AOe , $\hat{P}_{max e}$) of working parameters, at least in dependence on measured values (FH, FB, TBC, TBF, Q), the choice step of control law of neutron absorber compound concentration ([B]) and positions of entry (Z1-Z5) of rod (P1-P5) groups selected from groups including at least the first and second laws of control differing from each other and control mode of working parameters according to selected a law of control in dependence on preset values (T_{moyc} , AOc , $\hat{P}_{max c}$), concerning specified parameters and estimated effective values (T_{moye} , AOe , $\hat{P}_{max e}$).