

Title (en)

METHOD AND SYSTEM FOR PERFORMING A SAFETY ANALYSIS OF A BOILING WATER NUCLEAR REACTOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DURCHFÜHREN EINER SICHERHEITSANALYSE FÜR EINEN SIEDEWASSER-KERNREAKTOR

Title (fr)

PROCEDE ET SYSTEME PERMETTANT DE REALISER UNE ANALYSE DE SURETE SUR UN REACTEUR NUCLEAIRE A EAU BOUILLANTE

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Application

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Priority

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Abstract (en)

[origin: WO03005376A1] A method (60) for performing a computerized safety analysis of a boiling water nuclear reactor (10) to facilitate a user in obtaining a licence amendment from a nuclear regulatory body to operate the boiling water nuclear reactor at an increased core thermal output is provided. The method has a minimum number of computer calculations and is demonstrated through computer simulation that safe operation of the nuclear reactor is not compromised. The method includes constraining (62) operation of the nuclear reactor to a safe operating domain (40) determined by a previous safety analysis, and demonstrating (64) that the safe operating domain determined by the previous safety analysis applies to the operation of the nuclear reactor at the increased core thermal output.

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