About AFCEN Subcommittee RCC-M
Design and Construction Rules for Mechanical Components of PWR Nuclear Power Plants

Subcommittee organization
ABOUT 220 EXPERTS ARE PARTICIPATING TO EITHER OF THE 7 WORKING GROUPS

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Editions in use
- 2000 Ad., 2002, EPR OL3
- 2007 EPR FA3, China
- 2007 Ad., 2010 EPR UK
- 2017 French EDF Fleet intervention
- 2018 French and English version

Translations are possible with the agreement of AFCEN (Chinese is available).

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Future Developments
Key issues

To prepare RCC-M 2024.
To increase international opening and participation:
User groups in: UK, China, and CEN/European Committee CWA 64
To develop collaborations with Safety Authorities and Standard Development Organizations:
French SA, UK ONR, MDEP (Multinational Design Evaluation Program of OECD/NEA), European Union Committee (CEN-CWA 64), ISO, ASME, KEPIIC, JSME, CSA, TK322, AERB...

Latest Edition Outline

SECTION I • NUCLEAR ISLAND COMPONENT
  - Subsection «A»: general rules
  - Subsection «B»: class 1 components
  - Subsection «C»: class 2 components
  - Subsection «D»: class 3 components
  - Subsection «E»: small components
  - Subsection «G»: core support structures
  - Subsection «H»: supports
  - Subsection «J»: low pressure or atmospheric storage tanks
  - Subsection «P»: containment penetration
  - Subsection «Z»: technical appendices
    ZI, ZII, ZIII, ZIV, ZV, ZVI: mandatory appendices
    ZA, ZD, ZE, ZF, ZG, ZM, ZS, ZY, ZZ: non mandatory appendices

SECTION II • «M»: MATERIALS

SECTION III • «MC»: EXAMINATION METHODS

SECTION IV • «S»: WELDING

SECTION V • «F»: FABRICATION

SECTION VI • «RPP»: PROBATIONARY PHASE RULES

RPP-1: nuclear management system
RPP-2: fatigue curve for stainless steels and nickel alloys
RPP-3: effects of the pwr water environment on the fatigue performance of austenitic and austenitic-ferritic steels
RPP-4: qualification of active mechanical equipment (pumps and valves) requiring qualification to accident conditions
RPP-5: Level 1 nuclear assemblies subsection U

RPP-6: Class 2 and 3 nuclear assemblies subsection V
RPP-7: Combination of loading conditions by the stress tensor difference method
RPP-8: Alternative method for the calculation of the alternating stress intensity S’alt
RPP-9: Guide for the analysis of the behaviour of multi-perforated tubesheets
RPP-10: Alternative rules for the design of bolted flange connections

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