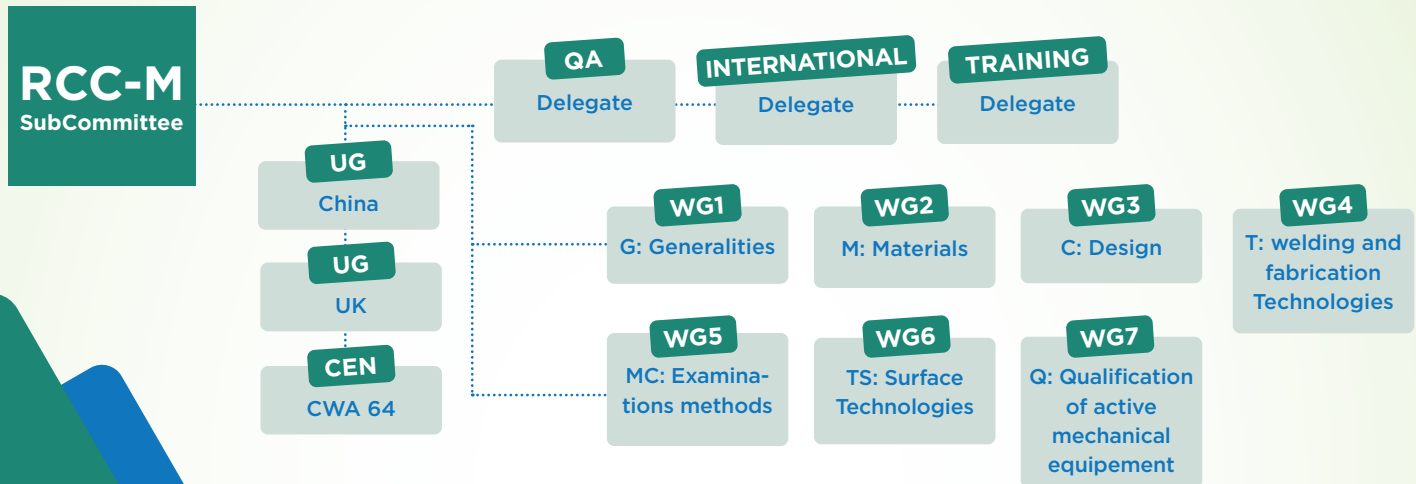


## About AFCEN Subcommittee RCC-M

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



You have an interpretation request, complete the form on [www.afcen.com](http://www.afcen.com). You want to propose a modification of the code, complete the form on [www.afcen.com](http://www.afcen.com).



## RCC-M MECHANICAL COMPONENTS

### 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).

### Latest Edition

- RCC-M 2022: French

## 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, KEPIC, 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<sub>alt</sub>
- RPP-9:** Guide for the analysis of the behaviour of multi-perforated tubesheets
- RPP-10:** Alternative rules for the design of bolted flange connections

## Subcommittee Chair

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**Nicolas de MATHAN**

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