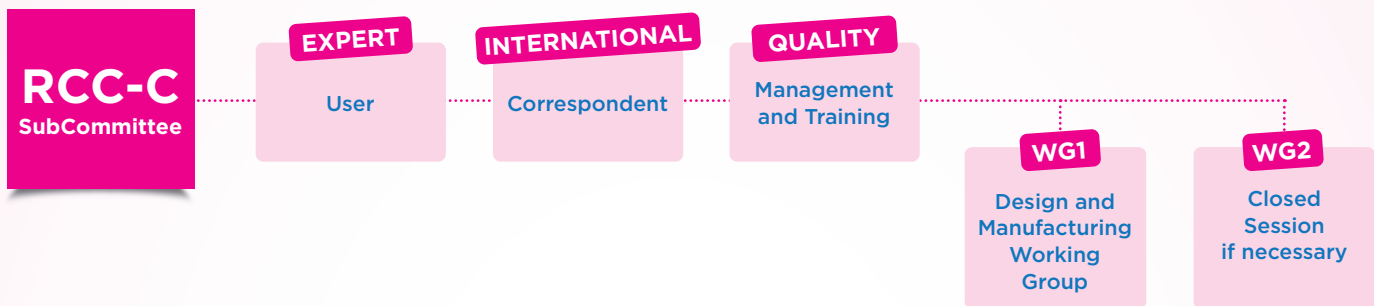


## About AFCEN Subcommittee RCC-C

Design and Construction Rules for Fuel Assemblies of PWR Nuclear Power Plants



### Subcommittee organization

To insure consistency between Design and Manufacturing aspects, one single Working Group is defined in the organization.

**10 permanent experts** participate to the Working Group and specific experts are invited depending on the agenda.

Closed sessions may also be established if requested by any of AFCEN's members to guarantee technical confidentiality.

### Available Publications

**PREVIOUS EDITIONS IN FRENCH AND ENGLISH (annual publication since 2016)**

**RCC-C 2022 LATEST EDITION: FRENCH AND ENGLISH**

### Future Developments

#### Key issues

**The next editions will introduce or take into account the following aspects:**

- **integration of GSR part 2 replacing GS-R-3 and consistent with ISO 19443**



## RCC - C FUEL ASSEMBLIES

- **Safety criteria related to the first barrier:** the RCC-C will have to be modified to take into account the French Safety Authority requirements after the independent technical review that took place in June 2017 on the Fuel safety criteria. The objective of this review was to check the relevancy of the fuel criteria in the frame of the present knowledge of phenomena, the operating conditions and the technical improvements made on the fuel (cladding alloys with improved corrosion resistance).
- **Moreover, the next main working topics will include code** requirement adaptation according to new designs of fuel assemblies and associated core component.

## Latest Edition RCC-C 2022 overview

### CHAPTER 1: General provisions

- Purpose of the RCC-C
- Definition
- Applicable standards
- Equipment subject to the RCC-C
- Management system
- Processing of nonconformances
- Customer surveillance

### CHAPTER 2: Description of the equipment subject to the RCC-C

- Fuel assembly
- Core components

### CHAPTER 3: Design

- Safety functions, operating functions and environment of fuel assemblies and core components
- Design and safety principles

### CHAPTER 4: Manufacturing

- Material and part characteristics
- Assembly requirements
- Manufacturing and inspection processes
- Inspection methods
- Certification of ndt inspectors
- Characteristics to be inspected for the materials, parts and assemblies

### CHAPTER 5: Situations outside the nuclear steam supply system

- Fresh fuel
- Irradiated fuel

## Subcommittee Chair

**Kader NIANG**  
CHAIRMAN

**Bruno BONNAMOUR**  
WORKING GROUP LEADER

**Ludovic QUEMARD**  
QUALITY MANAGEMENT AND TRAINING



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