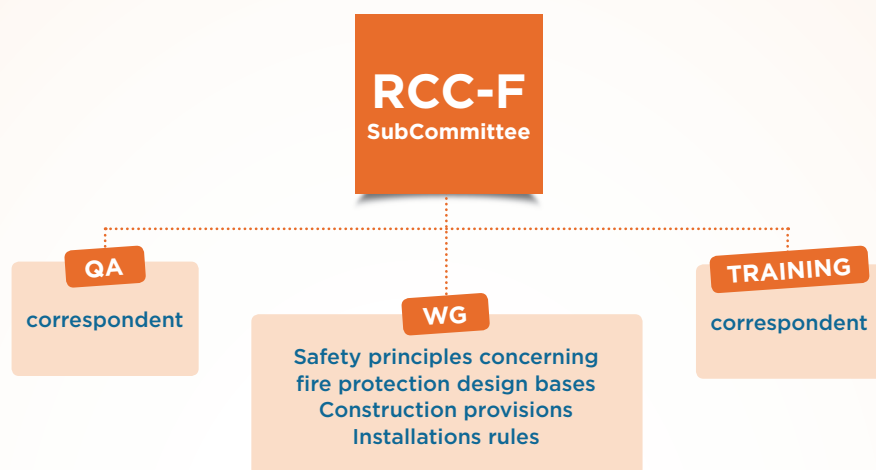


About AFCEN Subcommittee RCC-F

Design and Construction Rules for Fire protection



Subcommittee organization

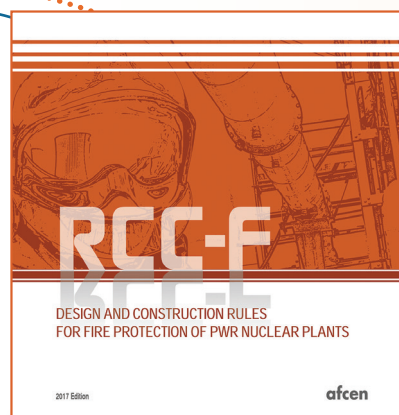
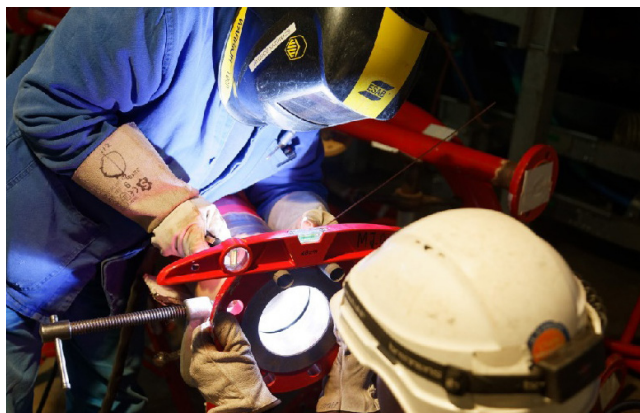
ABOUT 20 EXPERTS ARE PARTICIPATING TO THE WORKING GROUP:

■ WG: RCC-F

Design safety principles concerning fire protection design bases
Installation rules for fire protection components and equipment

Available Editions

- ETC-F 2010
- ETC-F 2013 incorporate French and UK Appendices
- RCC-F 2017 generic PWR version



RCC-F FIRE PROTECTION

Future Developments Key issues

PREPARING RCC-F 2020:

- Feedback from EPR fleet and projects (France, UK, China)
- Additions: Post-Fukushima learning (design extension), regulation evolutions (IAEA, WENRA), Hydrogen fires, etc.

- A 2000 GENERAL POINT**
 - A 2100** Objective of the RCC-F
 - A 2110** General Objective
 - A 2120** Nuclear Safety Principles
 - A 2200** Applicability of the RCC-F
 - A 2300** Definitions
 - A 5000** QUALITY ASSURANCE
- B 1000 GUIDELINE OF NUCLEAR SAFETY PRINCIPLES**
 - B 1100** Main Safety Objectives
 - B 1200** Design Nuclear Safety Requirements and Analysis Rules
 - B 1300** Application of Random Failure Principle
 - B 1400** Fire and Events
- C 1000 FIRE PROTECTION DESIGN BASIS**
 - C 1100** Prevention of Fire Start
 - C 1200** Quick Detection and Extinction
 - C 1300** Limitation of Aggravation and Propagation
- D 1000 CONSTRUCTION PROVISIONS**
 - D 1100** Prevention
 - D 1200** Fire Containing
 - D 1300** Building Arrangement for Evacuation and Intervention
 - D 1400** Smoke Protection Control and Exhaust System
 - D 1500** Emergency Lighting and Fire Signage
 - D 1600** Provisions for the Disabled
- E 1000 RULES FOR INSTALLING THE FIRE PROTECTION COMPONENTS AND EQUIPMENT**
 - E 1100** Production Components and Equipment
 - E 1200** Fire Protection Equipment

RCC-F Overview

- APPENDIX A (FRANCE):** regulations, codes and standards
- APPENDIX A (UK):** regulations, codes and standards
- APPENDIX B:** seismic qualification - EPR FA3 example
- APPENDIX C:** commissioning and periodic tests
- APPENDIX D:** installation provisions for fire-resistant cable wraps
- APPENDIX E:** installation provisions for the fire-resistant cases
- APPENDIX F:** EDF documentation applicable to design and operation
- APPENDIX G:** EPRESSI method
- APPENDIX H:** common mode criteria

Subcommittee Chair

Richard TULINSKI
CHAIRMAN

Bernard GAUTIER
ACTING CHAIRMAN, GROUP LEADER,
INTERNATIONAL CORRESPONDENT

Mickaël CESBRON
QA, AND TRAINING



Certified training courses with Partners

Trainings on use of ETC-F/RCC-F available in French and English. AFCEN/RCCF survey of training material and content, structure, trainers. Delivery of AFCEN Certificate of Attendance.

The certified training partner is:



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