

Codification

Design and construction rules for mechanical components of nuclear installations: high temperature, research, and fusion reactors (AFCEN Code: RCC-MRx)

Framatome is for many years a member of AFCEN and is fully involved in codification works and notably in the development of the code RCC-MRx

Challenge

One of the objective for Framatome through the codification is to share its multidisciplinary expertise and formalize good practices in the design and construction of fast neutron reactors (Superphénix, Phénix, EFR, and ASTRID), experimental installations (Cabri, Jules Horowitz reactor) and fusion reactor (ITER).

Solution

Participate to the thematic working groups which set up R&D program and ensure the link with the codification. Finally, implement new rules, data...in the code if required,

Lead and participate to the working groups in charge of the RCC-MRx code evolutions, for the design (design rules, definition of the criteria for sizing) and construction (materials, control methods, fabrication mode.....),

Examine the modification and interpretation requests from the users of the code,

Update the code regarding the evolution of the standards , the other codes and the regulation (in particular regulation relative to the pressure equipment); implement the code with updated rules and technics corresponding to industrial practices"

Ensure trainings (intra or inter companies).

Customer benefits

Thanks to the experience acquired in AFCEN for more than thirty years, we can manage different subjects relative to the codification:

- Interpretation of codes and standards,
- Establish reconciliation documents (p.e demonstration of the conformity to a recent edition of RCC for component procured according an older one),
- Help customers to establish modification requests of Code.

**Your performance
is our everyday commitment**



Technical Information

For the next edition of RCC-MRx (issue at the end of 2018) :

- From 2016 to 2018, introduction of technical modification in the code from RJH and ASTRID feedback notably,
- In 2017, issue of a guideline for the introduction of a new material in the code RCC-MRx (base metal in a first time); the purpose of the guide is to help the user to establish his material file,
- In order to be consistent with French order for nuclear pressure equipment, implementation in a special part of the code of the main provisions to comply with to be conform with this regulation (in progress).

Key figures

150 modification requests examined by Framatome team in the frame of AFCEN working groups for the 2018 edition of RCC-MRx

45 Meetings about of working groups and subcommittees, in which Framatome was involved for the preparation of the next edition

Contact: commercial_excellence_IB@framatome.com
www.framatome.com

The data and information contained herein are provided solely for illustration and informational purposes and create no legal obligations for Framatome.

None of the information or data is intended by Framatome to be a representation or a warranty of any kind, expressed or implied, and Framatome assumes no liability for the use of or reliance on any information or data disclosed in this document. ©2018 Framatome Inc. All rights reserved.