

NRC Topics

Status and Update

Remarks by

David L. Rudland

Senior Technical Advisor for Materials
Office of Nuclear Reactor Regulations
U.S. Nuclear Regulatory Commission

Industry / NRC Materials Programs
Technical Information Exchange
Public Meeting

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Topics

- Appendix H
- CMAC
- FAVOR
- xLPR
- MDEP/CNRA CSWG
- CRDM thermal sleeve wear
- KOBE Steel

Appendix H

Status:

- June 1, 2017 – During public meeting stakeholders agreed with NRC proposal to revise 10 CFR 50 Appendix H and retain ASTM E185-82, with conditions
 - This option maximizes burden reduction while maintaining comparable level of safety
- NRC staff continues to work on developing the Regulatory Basis, which is scheduled for publication during September 2018
 - Winter 2017 – NRC staff reevaluated the most effective and efficient approach to conduct this rulemaking effort

FAVOR

Status:

- Current code version: v16.1
- Maintenance and distribution
 - Current maintenance: NRC and NUMARK (contractor)
 - Distribution: contact Patrick.Raynaud@nrc.gov
 - Future plan: NRC/RES to maintain and distribute FAVOR, with contractor support, as needed

Ongoing activities:

- V&V Assessment for FAVOR v16.1
 - NRR and RES FAVOR user's training
 - RES knowledge management efforts for possible in-house development of FAVOR
 - Applications to resolve small surface flaw issue
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xLPR

Status:

- Code development, Version 2 complete
- Documentation – 17,000 total pages – final NUREG under development - 2019
- Maintenance and public distribution
 - NRC and EPRI finalizing legal framework to enable joint maintenance and distribution activities

Ongoing activities:

- NRR reviewing key technical basis documents to determine possible acceptability of code for LBB regulatory applications
- RES/EPRI conducting sensitivity studies and independent pipe system analyses

Carbon Macrosegregation

Status:

- Currently, there are 17 U.S. plants identified as having components produced by AREVA Creusot Forge (ACF). Not confirmed that any of these components contain carbon macrosegregation (CMAC).
- NRC staff's safety assessment of the CMAC topic, as it relates to plants operating in the U.S., issued on February 22, 2018 [ML18017A441].
 - The safety significance of CMAC is negligible for U.S. plants.

Ongoing activities:

- NRC staff continue monitoring all domestic and international information associated with the CMAC topic, as discussed in ML18017A441.

Codes and Standards Working Group

What is it:

- Working group currently under Multinational Design Evaluation Programme (MDEP), being considered for Committee on Nuclear Regulatory Activities (CNRA).
- Promotion of Codes and Standards concerning pressure-boundary components with a focus on harmonization through development and mutual exchange of information.
- Leveraging international cooperation in codes and standards development.

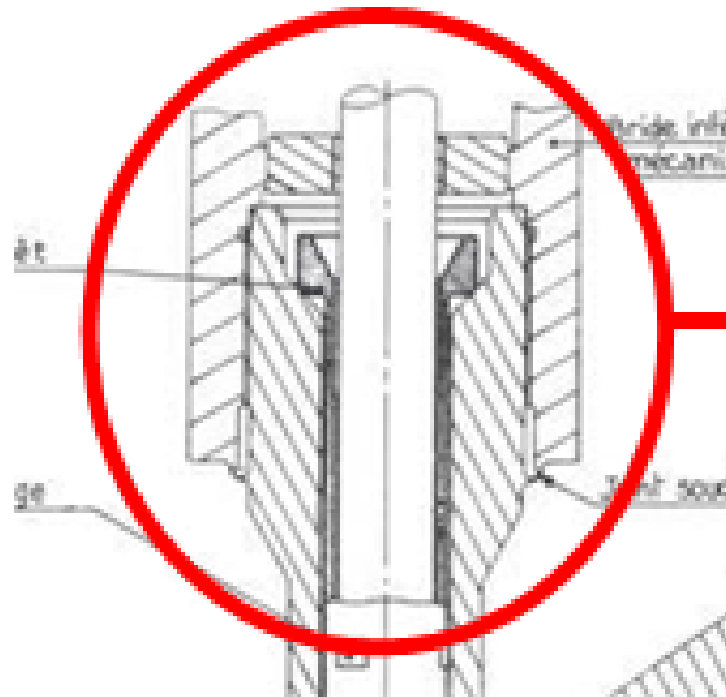
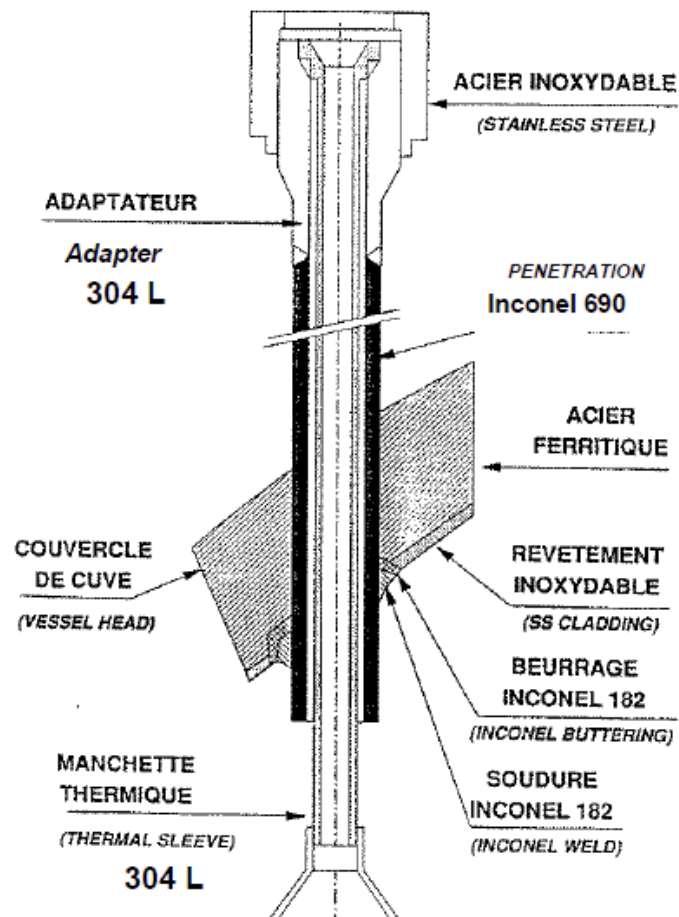
Ongoing activities:

- If transfer to CNRA is approved, CSWG may investigate topics such as
 - CMAC
 - Additive manufacturing
 - HDPE
 - In-service inspection code comparison
 - Environmentally assisted fatigue

CRDM Thermal Sleeve Wear

- Information from ASN
- For info only and looking for thoughts/OE from Industry

CRDM Thermal Sleeve Wear



KOBE Steel

Issue:

- In 2017, Kobe Steel announced it has falsified strength and durability data of aluminum and copper products. Subsequent announcements indicated documentation affected for some steel powder, steel wire and steel plates. Falsifications were thought to go back 10 years.
- NRC gathered info and determined low safety significance for U.S. plants.
- After further investigation by Japanese government: Falsifications occurred for five decades and included 685 clients.

Ongoing activities:

- NRC re-investigating impacts to operating fleet.