

PWR¹ Damage Sequences

Duration: 2,5 days (17,5 hours)

Language: French - English

Participants: 08 – 15

Location: Paris, other location on request

Level: Advanced

Contact: formation.reacteurs@framatome.com

You are:

A mechanical engineer working in any domains linked to structures analyses (thermomechanics, dynamics, mechanics) consistent with codes and standards
A business engineer wishing to deepen her/his knowledge in mechanical behavior of structures

Prerequisites:

No prerequisite

During the training you will:

- Detail all the possible phenomena leading to damage of mechanical equipment of a nuclear power plant

After the training, you will be able to:

- Recognize logic links between the physical phenomena, their representation and the design rules used
- Distinguish the different failure modes

Course strengths:

- Theoretical learning illustrated on nuclear industry examples
- Involvement of specialists and experts
- Knowledge sharing

Program

- Excessive deformation and plastic instability

- Fatigue
- Progressive deformation
- Synergies wear / corrosion
- High temperatures effects
- Non mechanical failure modes
- Fast fracture

¹ Pressurized Water Reactor