

Fundamentals on ATMEA 1 reactor

Duration: 3 Days (21 hours)

Language: English

Participants: 15 à 25

Location: worldwide (in intra only)

Level: Fundamentals

Contact: formation.reacteurs@framatome.com

You are:

An engineer or technician with a basic knowledge of PWR¹, interested in the ATMEA1 reactor or involved in the business development of ATMEA1 reactor (from Framatome, MHI², potential industrial partner, business developer...)

Prerequisites:

No prerequisites required

During the training, you will:

- Learn about the design principles of the ATMEA1 reactor.
- Learn about the design of the main circuits of the ATMEA1 reactor.
- Discover the Instrumentation and control and electrical systems of the ATMEA1 reactor.
- Learn about the behavior of the ATMEA1 reactor in condition of external hazards.
- Learn about the licensing process of the ATMEA1 reactor.

After the training, you will be able to:

- Describe the main characteristics of the ATMEA1 Reactor
- Present the general architecture of the ATMEA1 reactor

¹ Pressurised Water Reactor

² Mitsubishi

- Share views with other stakeholders about the ATMEA1 reactor

Course strengths:

- Comprehensive presentation of the ATMEA1 reactor
- Networking among all the stakeholders

Program

- Background on the ATMEA Company
- Design philosophy
- Licensing strategy
- Nuclear island layout
- Core Design and Operational Performance
- Main Equipment Design
- Systems Design (Non safety and safety classified)
- Severe accident strategy
- I&C³ and electrical systems
- Fukushima accident lessons learnt and consequences on the design
- Summary

³ Instrumentation and Control