

SYSTEMA EPR

Training path: SYSTEMA EPR / ELECTRA EPR / PHYSICA EPR / OPERA EPR

Duration: 5 days (35 hours)

Language: French – English

Participants: 08 – 12

Location: Paris, other location on request

Level: Advanced

Contact: formation.reacteurs@framatome.com

You are:

A business engineer involved in EPR
 An engineer involved in studies related to the normal or accidental EPR operation
 An engineer or technician involved in the EPR operation or maintenance

Prerequisites:

Basic theoretical knowledge of nuclear and pressurized water reactor operation

During the training you will:

- Study the operating condition of EPR
- Understand the design of EPR

After the training, you will be able to:

- Describe the architecture and design principles of EPR
- Distinguish the different operation phases of the EPR in normal, incidental and accidental operating situation

Course strengths:

- Involvement of specialists and experts
- Use of simulator
- Knowledge sharing
- Wide topics range from normal to accidental operation

Program

Theoretical classes:

- Primary circuit (reminders)
- Auxiliary systems
- The main regulation chains
- Mode T control
- Safeguard systems
- Principles and sizing of the NSSS¹ protection

Applications on simulator:

- From cold shutdown at RHR² conditions to cold shutdown on SG³
- Houseload operation
- Load follow
- Systems in operation during LOCA⁴
- Systems in operation during SGTR⁵

¹ Nuclear Steam Supply System

² Reactor Heat Removal

³ Steam Generator

⁴ Loss of Coolant Accident

⁵ Steam Generator Tube Rupture