

## NPP Basics Main Safeguard Systems

This lecture will present the basics of a nuclear power plant's Nuclear Island main Safeguard Systems, including explanation on Severe Accident Mitigation.

Duration: 3h30

Language: English

Participants: 10 to 30

Location: classroom



Basics

Prerequisites: None

### Your profile

Master 1-2 level student in a partnering university, wishing to acquire a global vision of a Pressurized Water Reactor (PWR).

### During the training, you will:

- Get the overview of Nuclear Island safeguard systems
- Understand the single parts of the Safety System (SIS) with injection values and locations of the system
- Get the description of the Extra Borating System, the Emergency Feedwater System and the main Steam Supply System
- Get the description of the Containment Heat Removal System
- Get the explanation on the Severe Accident Mitigation

### After the training, you will be able to:

- Name the different Safety Systems of the EPR and their location
- Identify the single parts of the Safety Injection System (SIS) with injection values and locations of the system
- Describe the Extra Borating System, the Emergency Feedwater System and the Main Steam Supply System
- Describe the Containment Heat Removal System

- Explain the Severe Accident Mitigation with passive and active measures for handling of the molten core

### Advantages

- Face-to-face training

### Content

#### Theoretical module:

- Overview of NI safeguard systems
- NI safeguard systems
- Severe accident mitigation
- Conclusion – key points to remember

### Evaluation

- None