

NPP Basics Auxiliary Systems

This lecture will present the basics of a nuclear power plant's Auxiliary Systems, including safeguard and operational systems, Chemical and Volume Control System, Control of radioactivity, Cooling Chain.

Duration: 3h

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 introduction on safeguard and operational systems
- Get the explanation on the function of the Chemical and Volume Control System and connected auxiliary Systems
- Get the description of the Need of Chemical conditioning of Reactor System
- Get the explanation on Control of radioactivity
- Discover the function of the Cooling Chain

After the training, you will be able to:

- Explain the Function of the Chemical and Volume Control System and connected Auxiliary Systems
- Describe the Need of Chemical conditioning of Reactor Coolant
- State the Function of the Gaseous Waste Processing System
- Explain the Purpose of the Staggering Pressure of Heating Venting Air Conditioning System
- State the Function of the Cooling Chain

Advantages

- Face-to-face training

Content

Theoretical module:

- Introduction
- Control of coolant inventory
- Control of reactivity
- Control of radioactivity
- Cooling of the core
- Conclusion

Evaluation

- None