CORONA ACADEMY

TRAINING COURSES

Severe Accidents Management at VVER Reactor Plants

Objective

On completion of training the trainee will be able:
– to demonstrate knowledge in the areas of severe accident management at the NPP, necessary for the performance of their job descriptions.
– to transfer and apply the basic strategy of severe accidents management

Brief Curriculum

The training course aims at giving competencies at EQF Levels 5-7.
Topics to be covered:
Severe Accidents at VVER Reactor Plants

- Key Definitions. Classification of Safety Levels and Barriers. Main Phases of a Severe Accident
- Core Degradation Phases during a Severe Accident
- Severe Accident Management Objectives. Severe Accident Management Principles
- Forms of Guiding Materials for Accident Management
- Roles and Responsibilities. Basic Principles of SMAGs Development.

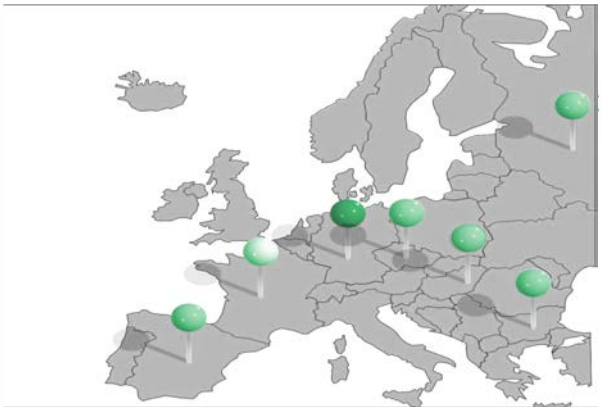
Severe Accident Management
SAMGs structure and content

- Procedure for SAM management from the Main Control Room.
- Actions at the MCR after the Beginning of Technical Support Centre/ Emergency Control Centre work
- Diagnostic Flowchart
- Serious Threat Tree
- Procedures of the Diagnostic Flowchart. Serious Threat Tree procedures
- Criteria (instruction) for SAMG Exit
- Auxiliary Calculation Means

The course is designed for theoretical training.

CORONA II HORIZON 2020 PROJECT

This course was supported by CORONA II



Target group

Nuclear Professionals and Researchers engaged with:

- Management - All management activities related to the plant life cycle, providing all aspects of NPP safe operation, i.e. policies, decision-making, etc.
- Operation - Overall operation of the plant, plant control & systems, routine operations (start up, shutdown), emergency actions and safety-related operations
- Maintenance - Overall maintenance of the plant and equipment (mechanical, I&C, electrical), regular check ups
- Engineering and technical support - Technical support, modifications, complete testing, reactor physics, chemistry, fuel-related and other support services
- Radiation protection - Radiation monitoring
- Design - Plant and system design, analysis and procurement activities
- Research & Development - Development of processes, systems, equipment and prototype testing
- Training/Instructors - Combination of activities, including coaching and instructions, with the purpose of preparing an individual or a team to perform a specific task or job, or series of jobs, through achieving a set of training objectives.

Qualification requirements

- Specialists who are graduated at least with the level of bachelors and have the intention to perform works related to NPP VVER, nuclear applications or education.
- Trainees should be familiar with the reactor design, composition and features of the technological systems and a background of NPP VVER-type equipment operation.
- Good verbal and written English skills.

Host organisation

Engineering Support and Intellectual Solutions GmbH (ESIS GmbH), Germany
The venue can be mutually agreed with the Customer.

Language

The working language of the course is English and Russian.
The language can be mutually agreed with the Customer.

Duration

16 hours

Contact details

Volodymyr Kosheliev
vkoshelev@ukr.net
www.corona2.eu

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