

## Training Course

on

### “Safety requirements for Near Surface Disposal Facility and performance assessment”

**September 11-15, 2023**

*GATE Center – Pisa (Italy)  
Largo Padre Renzo Spadoni, 2*

#### Training objective

The training course has the objective to present and discuss the safety conception of a NSDF, its engineered barriers, the safety requirements, and the safety analysis to be performed in various phases of the licensing process. Familiarization with software for long term performance assessment is included.

#### Target audience

Staff of: nuclear regulatory authorities (NRA), technical and scientific support organizations (TSO), research organizations and design companies.

#### Participant background

Scientific technical background. Basic knowledge of radioactive waste would help.

#### Lecturers

EU senior experts with regulators view, experienced in training activity will provide lectures and direct the discussion.

#### Program topics

- Near Surface Disposal Facility (NSDF) current technologies and safety functions
- Engineered barriers and design safety requirements according to IAEA SS
- Key safety issues for siting, design, construction, operation, closure and post-closure
- NSDF waste acceptance criteria
- Licensing process and content of safety analysis for the licensing phases
- Long term safety and computation tools for performance assessment
- Familiarization with Goldsim software and case studies simulating release from the NSDF, migration of RN and impact on public health
- regulatory licensing review process and TSO support

#### Learning outcomes

Understanding and familiarization with:

- EU directives & international standards for N&R safety related to RWM
- safety objectives & safety functions of NSD facilities and current technologies
- licensing process phases and related safety analysis to be performed
- importance of criteria for waste acceptance in a RW surface repository
- operation if a NSD facility and related safety analysis
- key aspects of closure and post-closure of a NSDF & performance assessment
- scenarios & assumptions characterizing a performance assessment (PA)
- Structure and capacity of Goldsim software to simulate processes for PA
- regulatory management of SAR review and use of external support

#### Course information

**Duration of the course:** 5 days

**Date/place:** September 11-15, 2023 - GATE Center – Pisa (Italy)

**Language:** English

**Fee:** € 1.900 (+VAT 22%) including training material (paper and electronic copy) and *coffee breaks and daily lunch*.

Special discount for more participants from the same organization.

#### Registration deadline:

Early deadline August 21, 2023

Later registration possible with 10% fee supplement.

**Registration form** available on our website: [www.iter-consult.it](http://www.iter-consult.it)

**Certificate of attendance** will be issued to the participants attending the course.

#### Accommodation

On request information regarding suitable hotels in Pisa will be provided.

#### Contacts:

*ITER training manager*  
*infotrain@iter-consult.it*  
*Tel: + 39 0774496047*