



INSC Project MC3.01/13

EC Contract N° NSI/2014/343-969

“Training and Tutoring for experts of the NRAs and their TSOs for developing or strengthening their regulatory and technical capabilities”

Requirements & Safety evaluation for Decommissioning of Nuclear facilities

organized by ITER-Consult

Rome - June 18 – 22, 2018

VILLA EUR - Parco dei Pini

P.le M. Champagnat, 2 - 00144 Rome - Italy

Tel. +39.06.54220627, Tel. +39.06.54220659, Fax +39.06.54220912

Course Objective

The training course intends to provide a comprehensive presentation and discussion of policy and safety approach (legal basis, funding, infrastructure, strategy, safety requirements, EU and international references) for decommissioning of Nuclear Facilities.

The decommissioning of nuclear facilities in terms of strategy and possible options are presented and discussed, as well as the preparation of decommissioning plans, the content of SAR for licensing, the implementation of activities in subsequent phases and related licensing review and approval, including objective and scope of onsite regulatory inspections.

Attention will be given to the management of RW deriving from decommissioning activity.

Reference standards and guidelines for regulatory review are presented. The content of safety analysis and safety justification to be submitted for licensing approval, the approach for regulatory review, including dialog with the licensee, are discussed with relevant examples from regulatory experience in EU.

One practical application and a visit to a NPP under decommissioning and related RW management facilities are included in the training program.

Conclusive summaries, questionnaires and discussions with trainees are provided to check the effectiveness of the achieved results.



resources & energy



Course Daily Program

Monday June 18th 2018	
9.00 – 13.00	<i>Registration</i>
	Welcome, Organizational aspects, Training objective & program
	<i>A. Madonna (ITER), M. Dionisi (ISPRA)</i> - EU Infrastructure for Nuclear & Radiation Safety
	<i>M. Dionisi (ISPRA), A. Madonna (ITER)</i> - Functions of the Nuclear Regulatory Authority
	<i>I. Tripputi (ITER)</i> - Decommissioning of nuclear facilities: policy, strategy, cost estimation and funding
13.00 – 14.00	Lunch
14.00 – 17.00	<i>I. Tripputi (ITER)</i> - EU & International requirements for decommissioning activity
	<i>M. Dionisi (ISPRA), I. Tripputi (ITER)</i> - Decommissioning of different type of nuclear facilities and QA requirements
	<i>N. Vlahov (BNRA)</i> - Objective and content of the Decommissioning Plan

Tuesday June 19th 2018	
9.00 – 13.00	<i>N. Vlahov (BNRA)</i> - Radiological and Engineering survey of nuclear facilities before & during decommissioning
	<i>I. Tripputi, A. Madonna (ITER)</i> - Regulatory requirements for safety functions (and systems) during decommissioning process
	<i>M. Dionisi (ISPRA), I. Tripputi (ITER)</i> - Italian practice/experience on NPP decommissioning
13.00 – 14.00	Lunch
14.00 – 17.00	Practical application on “Requirements and Safety evaluation for Decommissioning of NF”

Wednesday June 20th 2018	
9.00 – 13.00	<i>C. Osimani (ITER), M. Dionisi (ISPRA)</i> - Licensing approach for decommissioning process, decommissioning phases and related authorization
	<i>C. Osimani (ITER), N. Vlahov (BNRA)</i> - Content of SAR and safety analysis for decommissioning activities
13.00 – 14.00	Lunch
14.00 – 17.00	<i>Mr. J. Berger (TUEV)</i> - Management of decommissioning waste under regulatory perspective
	<i>Mr. J. Berger (TUEV)</i> - Decontamination and Dismantling activities for decommissioning of nuclear facilities
	<i>G. Pino (ITER)</i> - Regulatory inspection during decommissioning

Thursday June 21th 2018	
8.00 – 17.00	Visit to Italian NPP: - NPP decommissioning activities - RW storage facility

Friday June 22th 2018	
9.00 – 13.00	<i>G. Sedda (ISPRA)</i> – Nuclear security aspects during RWM and decommissioning of NF
	<i>M. Dionisi (ISPRA)</i> - Clearance Levels for decommissioning materials
	<i>M. Dionisi (ISPRA) - A. Madonna (ITER)</i> - Developing regulatory guidelines for decommissioning
	<i>R. Remetti (ITER)</i> - End state of decommissioning activity and site release criteria
13.00 – 14.00	Lunch
14.00 – 17.00	<i>Course summary</i>
	<i>Opinion from trainees</i>
	<i>Questionnaire</i>
	<i>Training Minutes</i>