

TC cycle 2018-2019
Regional TC Projects, Europe Division

TC Project Number	Title	Objective	Criteria for Member State participation and National Counterparts
RER2016013 RER0043	Enhancing Capacity Building Activities in the European Nuclear and Radiation Safety Organizations for the Safe Operation of Facilities	To strengthen regional cooperation in developing and maintaining capacity building programmes for nuclear and radiation safety facilities and activities.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> ● Those with nuclear programmes and nuclear facilities, with identified needs and gaps regarding the capacity building in nuclear safety related aspects <p>The target counterparts are:</p> <ul style="list-style-type: none"> ● Governmental Organizations, Regulators, TSOs, R&D Organizations, Operators, research and development (R&D); Educational Institutions, Research laboratories, and other stakeholders involved in capacity building programmes of Member States and having a role and responsibilities in building and maintaining the nuclear safety; ● Senior Professionals working in the human resource development, education & training, knowledge management and knowledge networks for enhancing nuclear safety and strengthen the global nuclear safety framework
RER2016008 RER1018	Harmonizing Non-Destructive Testing, Training and Certification for Civil Engineering and Cultural Heritage	To improve safety in construction and operation of buildings and industrial facilities, and enhanced preservation of cultural heritage artefacts.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> ● Participating countries should have digital radiography infrastructure and basic tools related to archaeology. Representatives from Member States that lack capacity in NDT, may be considered for participation in certain activities related to raising awareness. <p>The project target counterparts are:</p> <ul style="list-style-type: none"> ● Project counterparts should come from resident institutes specializing in the creation, production and provision of services in the field of NDT qualification of specialists and/or hold a University degree to provide training of highly qualified specialists in the field of NDT.
RER2016029 RER1019	Enhancing Standardized Radiation Technologies and Quality Control Procedures for Human Health, Safety, Cleaner Environment and Advanced Materials	To enhance capabilities by establishing a peer review instrument for the standardized use of QA/QC procedures, utilizing knowledge and experience of European MSs in applying radiation processing.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> ● MSs involved in previous RER1017 and/or RER1101 projects. <p>The project target counterparts are:</p> <ul style="list-style-type: none"> ● Experts with radiation processing knowledge from radiation processing facilities in operation or in the implementation phase

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RER2016035 RER1020	Developing Radiotracer Techniques and Nuclear Control Systems for the Protection and Sustainable Management of Natural Resources and Ecosystems	To enhance and consolidate regional capability in online industrial process diagnosis, optimization and troubleshooting, using radiotracers and sealed source techniques.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •Those which have or intend to establish industrial radiotracers and sealed source technology application <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Institutions equipped with the necessary infrastructure and human resources to carry out industrial radiotracer and sealed source applications •Physical infrastructure (e.g., suitable buildings, laboratory facilities, necessary materials and equipment like data acquisition systems, detectors, radiation sources, radiotracers, sealed sources, modelling software). •Experts with knowledge regarding radiotracers, availability for open and sealed sources applications, radiochemistry or radiometric labs. Industrial users of radiotracer and NCS methods.
RER2016001 RER2014	Facilitating Capacity Building for Small Modular Reactors: Technology Developments, Safety Assessment, Licensing and Utilization	To contribute to a new way how to cover the European demand for clean and emission-free flexible resources of electricity and heat, work in synergy with renewables, and to decrease dependency on fossil fuel imports.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MSs interested in developing Small Modular Reactor Programmes in the future and that have in the past actively in IAEA SMR activities. <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Institutions involved in the various aspects of Small Modular Reactors development and deployment such as, in technology development, industrial involvement and procurement, capacity building, safety assessment, security issues, licensing, utilization, financing etc. •Nuclear power professionals, who can coordinate the wide area of topics addressed by this project, i.e. by ensuring that relevant national experts participate in the various project activities ranging from technology development and innovation, safety and regulatory aspects to overcoming financing issues.

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RER2016006 RER2015	Strengthening Nuclear Power Plant Lifetime Management for Long Term Operation	To enhance the NPP safety level for extended operation and with respect to international practice through exchanging experiences gained by the operating organizations in the Europe Region in performing studies to justify the safe and long term operation of NPP and by the regulatory authorities to license the LTO.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •Those which have existing NPPs under operation and or new NPP under its onstruction <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Experts from operator organisations, or technical support organizations, or research institutes directly involved in the various aspects of Nuclear Power Plant Lifetime Management for •Long Term Operation. •The counterpart should be nuclear power professionals, who can coordinate the wide area of topics addressed by this project, i.e. by ensuring that relevant national experts participate in the various project activities ranging from operation, technology development, technical support and innovation, safety, etc.
RER2016030 RER2016	Enhancing the Capabilities in the Diversification of Power Reactor Fuel Supplies	To enhance capabilities in the safe and efficient use of nuclear power with diversified nuclear fuels sources.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MSs with established or those which intend to establish national power fuel diversification programmes <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Operators of nuclear power plants and relevant fuel cycle activities, Regulators; and the Technical Support Organisations (TSO) of the Member States in the region •Experts with knowledge on nuclear fuel cycle, on the use of a nuclear technology, fabrication and burnup of nuclear fuel and related safety issues, etc.
RER2016004 RER5023	Enhancing National Capabilities for Early and Rapid Detection of Priority Vector Borne Diseases of Animals (Including Zoonoses) by Means of Molecular Diagnostic Tools	To disseminate technologies and improve the technical competencies of Member States' veterinary laboratories of the European region to early detect and rapidly response to (potential) outbreaks of vector borne diseases (VBDs) threatening the region.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MSs with officially designated veterinary laboratories for a detection and / or differentiation of animal and zoonotic diseases; and/or b) capture, detection and differentiation of animal and zoonotic disease vector carriers (primarily, but not exclusively, arthropod vectors). <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Professionals working in the officially designated veterinary laboratories for detection and / or differentiation of animal and zoonotic diseases; and/or: •Professionals working in the officially designated laboratories for capture, detection and differentiation of animal and zoonotic disease vector carriers (primarily, but not exclusively, arthropod vectors).

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RER2016009 RER6036	Improving Radiotherapy Practices for Advanced Radiotherapy Technologies Including Quality Assurance and Quality Control	To improve the quality of radiation therapy practices for effective treatment of cancer patients through the use of advanced radiotherapy techniques in the region.	<p>The project targets MSs are:</p> <ul style="list-style-type: none"> •MS with availability of at least one radiotherapy department involved in modern radiotherapy treatment in participating Member States. <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Nominated national counterparts should be a team of radiotherapy professionals (RO, MP, RT) who work in cancer centres in MSs, however with clear indication of one main contact person.
RER2016027 RER6037	Strengthening Nuclear Medicine Capabilities	To reduce the burden of non-communicable diseases with the use of nuclear medicine diagnostics and therapy.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •Countries with a nuclear medicine facility, or intending to introduce nuclear medicine in the very near future (one or two years). <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Senior Nuclear Medicine physicians. Preferably, the chief of Nuclear Medicine from a University Hospital, and ideally the president of the National Society of Nuclear Medicine (if such a professional society exists).
RER2016007 RER6038	Applying Best Practices for Quality and Safety in Diagnostic Radiology	To improve the quality and safety of diagnostic radiology through the application of best practices.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MSs that lack of competent professionals trained in quality and safety practices in diagnostic radiology, as well as MSs that lack relevant guidelines and documentations <p>The target project counterparts are:</p> <ul style="list-style-type: none"> •The institute of the suggested counterpart should be a leading university hospital, or an institution involved in the postgraduate clinical training of medical physicists and other health professionals. •In case of justified lack of appropriate candidate (justification should be included in the nomination form), a radiologist could be nominated, if there is clear intension to be utilized to initiate QA/QC mechanisms and procedures in diagnostic radiology the counterpart should be a medical physicist currently working in a diagnostic and/or interventional radiology department, preferably with some experience in quality and dosimetry practices in radiology.

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RER2016005 RER7009	Enhancing Coastal Management in the Adriatic and the Black Sea by Using Nuclear Analytical Techniques	To upgrade and harmonize Member State capacity to monitor and observe changes in the quality of coastal sediments on a regional scale considering aspects of pollution and climate change by using nuclear analytical techniques.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MSs that have either the Black Sea or the Adriatic Sea as a border. <p>The target project counterparts are:</p> <ul style="list-style-type: none"> •Experts from institutions with technical capacity and previous experience in coastal marine pollution monitoring which include measurements of radionuclides and toxic heavy metals. •Experts from institutions with experience in radiometric dating of environmental archives (e.g. sediment cores and corals) for reconstructions of pollution history in coastal marine environments and as proxies for climate change and additionally, previous involvement in web-based database design and management
RER2016037 RER7010	Improving the Remediation and Management of Terrestrial and Freshwater Environments Affected by Radioactive Material of Chernobyl Origin	To support Belarus, the Russian Federation and Ukraine in the long term management of contaminated terrestrial and freshwater environments of the Chernobyl-affected areas.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •Member State of Chernobyl-affected areas. Belarus, Ukraine, Russian Federation. <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Institutions directly involved in decontamination waste management after accidents fallout or deal with storage or remediation of huge volumes very low-level of radioactive materials.
RER2016034 RER7011	Enhancing the Inventory of Aerosol Source Profiles Characterized by Nuclear Analytic Techniques in Support of Air Quality Management	To reduce air particulate matter pollution across Europe.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MS that are interested in environmental monitoring and identification of potential sources of pollution and that have been actively involved in previous regional Air Pollution Monitoring TC projects i.e. RER/1/015 <p>The project counter parts are:</p> <ul style="list-style-type: none"> •Experts from institutions directly involved in environmental monitoring and identification of potential sources of pollution, and optimally, have been actively involved in previous regional Air Pollution Monitoring TC projects i.e. RER/1/015 and obtained positive results

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RER2016024 RER9146	Enhancing Capacities in Member States for the Planning and Implementation of Decommissioning Projects	To contribute to ensuring the safety and protection of workers, the public and the environment by conducting planning and implementation of decommissioning activities.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MS having institutions responsible for the safe operation of small nuclear facilities or medical, industrial and research facilities that use radioactive materials and sources; MS planning decommissioning of above mentioned types of facilities; MS conducting decommissioning of those facilities; MS developing regulations for decommissioning of those facilities, for issuing authorization for decommissioning and for performing regulatory oversight of decommissioning radioactive materials and sources <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Experts from institutions having responsibilities for safe operation of existing small nuclear facilities or medical, industrial and research facilities that use radioactive materials and sources; •Experts from institutions having responsibilities for planning of decommissioning of above mentioned types of facilities; •Experts from institutions having responsibilities for conducting decommissioning of those facilities; •Experts from institutions having responsibilities for developing regulations for decommissioning of those facilities, for issuing authorization for decommissioning and for performing regulatory oversight of decommissioning.
RER2016026 RER9148	Strengthening the Regulatory Infrastructure for Radiation Safety	To contribute to the safe and secure use of radiation sources, safe radioactive waste management and transport safety in order to protect the people and the environment from the adverse effects of ionizing radiation	<p>The target MSs are: Member States with regulatory infrastructure for radiation safety who seek to strengthen their framework</p> <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Experts from the regulatory body or bodies for safety and security regulation of the radiation sources; •Experts from the regulatory body' Technical Support Organizations (TSOs); •Experts from authorities and Agencies that have been clearly assigned by the Government responsibilities for safety specific for the meeting (competent institutions) •Inspectors and other staff members of the Regulatory Body with the specific for the area of the meeting responsibilities in radiation sources safety and security regulation; •Staff members of the competent institutions with the specific for the area of the meeting responsibilities in radiation sources safety and security

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RER2016023 RER9149	Improving the Radiation Protection of Workers Occupationally Exposed to Ionizing Radiation	To contribute to ensuring the safety of workers occupationally exposed to ionizing radiation.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> ●Member States with occupational radiation protection arrangements in place (with necessary legislative and regulatory infrastructure); ●Member States with technical services available for assessment of occupational exposure from external sources of radiation and due to intakes of radionuclides, workplace monitoring, recording of occupational exposure, and advisory services; end-users that have occupational radiation protection programmes in place and functioning with the aim of ensuring optimized radiation protection. <p>The project target counterparts are: Authorized or approved Institutions with responsibilities for:</p> <ul style="list-style-type: none"> ●implementing Occupational Radiation Protection Programs; ●improving provisions of radiation measurement, calibration and monitoring under Quality Management Systems; ●Implementing national dose registries.
RER2016003 RER9150	Improving Capabilities to Efficiently Implement Large Ongoing Decommissioning Projects and Waste Management with Minimization of Risks Based on Initiatives and Potential Synergies	To contribute to the efficient implementation of optimized solutions for large ongoing decommissioning projects, waste management and remediation of sites in Lithuania, Slovakia, Bulgaria and Ukraine	<p>The project target MSs are:</p> <ul style="list-style-type: none"> ●MS with institutions responsible for the safe operation of NPPs and for planning of their decommissioning; MS with NPPs in transition from operation towards decommissioning; MS with ongoing decommissioning projects of NPPs; MS developing regulations for decommissioning of NPPs, for issuing authorization for decommissioning and for performing regulatory oversight of decommissioning. <p>The project target counterparts are:</p> <ul style="list-style-type: none"> ●Institutions having responsibilities for safe operation of NPPs and for planning of their decommissioning; ●Institutions having responsibilities for transition of NPPs from operation towards decommissioning; ●Institutions having responsibilities for conducting decommissioning of NPPs; ●Institutions having responsibilities for developing regulations for decommissioning of NPPs, for issuing authorization for decommissioning and for performing regulatory oversight of decommissioning.

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RER2016036 RER9151	Updating and Harmonizing Emergency Preparedness and Response Plans	To protect humans and the environment from harmful ionizing radiation through updated and harmonized national arrangements supporting emergency preparedness and response in the Europe region.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MSs interested and committed to enhancing capacities to prepare and respond to radiological and nuclear emergencies and that conducted EPRIMS IAEA self-assessments before participating in this project <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Institutions having responsibilities for radiological and nuclear emergency preparedness and response (EPR) on a national level including relevant ministries, agencies and national regulatory authorities for radiation safety of Member States. •Experienced national EPR professionals who can coordinate and facilitate the update and harmonization of national EPR plans and regulations •Experienced national EPR professionals who take leadership in ensuring that initial EPRIMS IAEA self-assessments are conducted before participating in this project. The EPRIMS IAEA self-assessment will also be used to evaluate and monitor consistency of national EPR with International safety standards (GSR Part 7).
RER2016028 RER9152	Enhancing Inspection Capabilities in Nuclear Safety	To ensure sustainability and continuous improvement of the inspection process to achieve effectively utilized resources and improvement of NPP safety.	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •Member States operating or embarking on NPPs <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Experts from regulatory authorities and technical support organizations of Member States. •Professional working as RB inspectors, RB managers and technical support organizations of participating countries.
RER2016002 RER9153	Enhancing the Regional Capacity to Control Long Term Risks to the Public due to Radon in Dwellings and Workplaces	To support the establishment and implementation of national action plans in accordance with the GSR Part 3 for controlling public and occupational exposure due to indoor radon; the overall objective of the regional project has direct links for harmonized capacities and	<p>The project target MSs are:</p> <ul style="list-style-type: none"> •MS with a legal and regulatory framework for compliance with the fundamental requirements of international standards and guidance •MS involved in the two previous projects RER/9/127 (2014-2015 and RER/9/136 (2016-2017). <p>The project target counterparts are:</p> <ul style="list-style-type: none"> •Staff from authorities or organisations appointed to be responsible for coordinating national radon action plans or , if there is no such plan established yet, the authority or organisation that most probably will be appointed for that purpose.

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		protocols for monitoring of workplace exposure	<ul style="list-style-type: none"> •Governmental decision makers, national regulatory authorities, Ministries of Health, buildings professionals, technical support organizations, and others are expected to participate in the project. •Senior professionals from institutions for coordination national radon action plan or, if there is no such plan established yet, from the authority or organisation that most probably will be appointed for that purpose