

## MEMBER STATE PARTICIPATION IN RER PROJECT DESIGNS 2012-2013

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Member State: NAME							
Thematic Area	Design No.	Design File Name	Title of Project	Objective	Nature of Participation - "Receive Assistance" or "Provide Assistance"	Lead Counterpart Institution (Full Contact Details - Address, Phone, Fax, E-mail)	Name & Designation of National Technical Project Coordinator (NTPC)
Nuclear Safety	1	1-NucSafety	Strengthening nuclear safety assessment capabilities through the use of the IAEA's Safety Assessment, Education and Training (SAET) programme	To enhance and harmonise safety assessment competencies and capacities in Member States of TC Europe region operating, expanding or planning nuclear power programmes by delivering a rigorous and comprehensive education and training programme making use of the IAEA's Safety Assessment, Education and Training (SAET) programme.			
	2	2-NucSafety	Advancement of safety assessment capabilities, harmonization of safety assessments and creating synergy between deterministic and probabilistic safety analyses	To enhance, maintain and oversee the high levels of nuclear safety in Member States by strengthening their capabilities for conducting state of the art safety assessments (both probabilistic and deterministic) and facilitating integrated risk-informed decision-making			
	3	3-NucSafety	Enhancing utilization and safety of research reactors through networking, coalitions and sharing best practices	To improve sustainable utilization, safe operation and management of the Research Reactors through networks and coalitions and effective application of the Code of Conduct on Safety of Research Reactors.			
	4	4-NucSafety	Contributing to establish a safety infrastructure of a national nuclear power programme	To contribute to develop or reinforce the safety infrastructure of countries embarking in a nuclear power programme by completing national programmes with harmonized regional activities following DS424 road-map			
	6a	6a-NucSafety	Strengthening inspection capabilities and programmes of the regulatory authorities, including human and organisational factors.	To improve the capabilities of the regulatory bodies to define and implement effective inspection programmes of nuclear installations, including the oversight of human and organisational factors (HOF) and Integrated Management System (IMS), during operation and decommissioning, by sharing experience and mutual support and taking into account state-of-the-art methodologies			
	6b	6b-NucSafety	Improve operational safety of nuclear power plants	To improve operational safety of nuclear power plants through information sharing and mutual support in resolving deficiencies and implementing improvement programmes			
	11	11-NucSafety	Licensing of new designs (Generation III and III+)	To strengthen regulatory capabilities to license new designs of nuclear power plants up until routing operation			
	12	12-RadSafety	Strengthening of occupational radiation protection system of the nuclear industry and other applications involving ionising radiation.	To contribute to health and safety of workers occupationally exposed to radiation by strengthening occupational radiation protection system in compliance with the IAEA International Basic Safety Standards			
	13	13-RadSafety	Strengthening radiation protection of patients	To enhance capability of Member States in assessing and documenting reduction of radiation doses to patients without affecting diagnostic efficacy, avoidance of radiation injuries to patients and medical staff and avoidance of accidental exposures			

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Radiation Safety	14	14-RadSafety	Upgrading national capabilities in control of public exposure and in environmental protection	To improve the national systems for control of public exposure and for protection of the environment, in order to achieve adequate levels of radiation safety.			
	15	15-RadSafety	Strengthening and Harmonization of National Capabilities for Response to a Nuclear and Radiological Emergency	To strengthen and promote harmonization of national arrangements for response to radiological and nuclear emergencies and improve their compliance with the international standards, in order to achieve more sustainable national capabilities			
	16	16-RadSafety	Transport safety	Improved transport safety in participating member states			
	17	17-RadSafety	Reducing public exposure to radon by supporting the development and harmonization of national strategies	To assist participating Member States in establishing and further developing approaches to the control of public exposure to radon.			
NucSafety/RadSafety	7a	7a-NucSafety	Establishing a sustainable national regulatory infrastructure for safety in line with IAEA safety standards	To achieve and maintain effective and sustainable regulatory infrastructures for safety in accordance with relevant IAEA safety standards and guidance aimed to enhance effectiveness of the regulatory programmes.			
	7b	7b-NucSafety	Enhancing management, organisation and effectiveness of the regulatory authorities	To improve the attributes and internal management system of the regulatory authorities, including organisational factors, public communication and participation, and performance.			
	8b	8b-EduTrain (Safety)	Strengthening education and training infrastructure and building competence in radiation safety	To strengthen radiation safety through the development of sustainable and effective education and training programmes in radiation safety that are based on identified needs, and by developing national and regional expertise in radiation safety			
Nuclear Security	42	42-NucSecurity					
Nuclear Energy	5	5-NucEnergy	Enhancing nuclear power infrastructure of countries considering, developing or expanding nuclear power programmes	To contribute to energy security in the participating Member States by strengthening capacities in considering, developing or expanding nuclear power programmes.			
	9	9-NucEnergy	Strengthening capabilities to facilitate NPP lifetime management for long-term operation.	To enhance capabilities of operating NPPs to optimize all aspects of NPP operation			

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Nuclear Energy	10	10-NucEnergy	Strengthening engineering capabilities for GEN 3 and GEN 3+ nuclear power plants	To enhance engineering and assessment capabilities of the regulatory authorities and Utilities and of its technical support organizations for GEN 3 and GEN 3+ nuclear power plants (Passive systems, External hazards, Construction management, Safety I&C, Human machine interface, Main control room modernization)			
		18-NucEnergy	Enhancing capabilities to model and regulate nuclear fuel behaviour in and out of the reactor	To reinforce capability of participating Member States to understand nuclear fuel behaviour in reactor and during fabrication, storage, disposal and transport			
Radioactive Waste	19	19-RadWaste					
	20	20-RadWaste	Strengthening radioactive waste management capabilities	Improved capabilities of Operators and Regulators of RW management facilities			
	21	21-RadWaste	Supporting decommissioning implementation for nuclear facilities	To facilitate safe and efficient implementation of decommissioning			
	22	22-RadWaste	Decommissioning and waste management for Chernobyl NPP, Ignalina NPP and A1 NPP	To improve the technical capacity, efficiency and safety of decommissioning and waste management			
Environment	23	23-Environment	Safe management of uranium production legacy sites	To increase preparedness for the remediation of uranium production legacy sites			
	29	29-Environment	Radiological support for the return of normal life conditions and economic activities to the territories affected by the Chernobyl accident	To provide radiological support to the gradual transition of the territories of Belarus, Russia and Ukraine affected by the Chernobyl accident to normal life conditions and economic activities.			
	30	30-Environment	Enhancing air quality management in the TC Europe Region	To increase knowledge about the status of atmospheric pollution in the TC Europe Region			
	31	31-Environment	Supporting Remediation in European Member States	To increase preparedness for the safe and cost-effective implementation of remediation projects in the European Member States			

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	32	32-Environment	Quality assurance for measurements and monitoring of radioactivity in the environment	To improve quality assurance for the measurements and monitoring of radioactivity in the environment in order to assure future metrologically comparable measurement results of environmental radioactivity monitoring at the regional level			
<b>Water Resources</b>	43	43-WaterRes	Using environmental isotopes for evaluation of stream water / groundwater interactions in selected aquifers in the Kura-Araks-Pochkhovi Basin	To support Georgia, Armenia and Azerbaijan in assessing water resources as a first step to contributing to future environmental remediation of the Kura-Araks-Pochkhovi Basin			
<b>Human Health</b>	24	24-Health	Strengthening medical physics in radiation medicine in Europe	To improve the quality and safety of radiation medicine through consolidation of medical physics practices in the region			
	25	25-Health	Implementation of hybrid imaging (SPECT/CT and PET/CT) and Quality Management in Nuclear Medicine	Improved management of patients affected by chronic diseases by using hybrid Nuclear Medicine technologies and upgraded Quality Management Practices			
	26	26-Health	Quality audits in radiation oncology	To improve the quality and safety of radiotherapy services			
	27	27-Health	Capacity building in medical physics practice in radiation oncology at the international training centre (EARTH) for the CIS region	To improve the skills, competence and knowledge in medical radiotherapy physics in the CIS region			
	28	28-Health	Support for Comprehensive Cancer Control	Established cancer control programmes in participating Member States and increase cancer survival (long term)			
	8a	8a-EduTrain (Medicine)	Strengthening knowledge of radiation oncologists & radiation therapists (RT) in Europe	To ensure safe and effective application of radiotherapy in an era of increasing technology and complexity through training of Radiation Oncologists (ROs) and Radiation Therapists (RTs)			
<b>Food and Agriculture</b>	33	33-FoodAgric	Enhancing productivity and quality of major food crops in Europe and Central Asia	To support production of cereals, vegetables and legumes with higher yields, improved quality and better adaptability to unfavourable environmental conditions through mutation breeding			
	34	34-FoodAgric	Establishing a sustainable network on irradiated food.	To promote food security, reduce post-harvest losses, improve food safety and enhance food quality through establishing a network on irradiated foods			

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Food and Agriculture	35	35-FoodAgric	Supporting fruit fly pest prevention and management in the Balkans and the Eastern Mediterranean	To enhance agricultural productivity in the Balkans and Eastern Mediterranean by supporting fruit fly pest prevention and management			
	36	36-FoodAgric	Coordinated control of trans-boundary animal diseases with socio economic impact and affecting human health	To reduce trans-boundary disease incidence in livestock and livestock products in the Euro-Asian Region			
Industrial Applications	37	37-Industry	Advanced electron beam and electric fields generated plasmas technologies for pollutant emission control.	To disseminate knowledge and to elaborate the techno-economical comparison on advanced plasma technologies for pollutants emission control to prevent water/air pollution and climate changes and to contribute to the implementation of the goals of UN Millennium and EU 20/20/20 programs			
	38	38-Industry	Introduction and harmonization of standardized quality control procedures in radiation technologies.	To introduce and harmonise standardised quality control procedures in radiation processing of advanced materials, health care- and environment-friendly products			
	39	39-Industry	Radiation synthesis and characterization of nano materials for advanced technology, environment and healthcare products applications.	To establish cooperation of small and medium industrial enterprises (SMEs) with nuclear research institutes in order to develop and promote nanotechnologies through innovation and effective transition from a resource-based to knowledge-based industry , with emphasis on application of radiation technologies.			
	40	40-Industry	Development of coordinated NDT activities to comply with ISO codes requirements for training and certification.	To enhance the national NDT infrastructure on the basis of advanced techniques and harmonization of the training and certification capability to comply with ISO codes			
Cultural Heritage	44	44-CulHeritag	Enhancing the characterisation, preservation and protection of cultural heritage artefacts in the European Region	To improve the characterisation, preservation, protection and authentication of cultural heritage artefacts by effective utilisation of nuclear analytical techniques and radiation technology			
Legislative Assistance	41	41-LegAssista	Legislative assistance	To establish adequate national legal frameworks for the application of safe and peaceful uses of nuclear energy in Member States to comply with their international obligations and fundamental requirements of the relevant legal instruments and international standards			
Education & Training	8c	8c-EduTrain (Capabilities)	Harmonization and capacity building in the field of nuclear science and applications	To contribute to sustainability of human resources and knowledgebase in European region by harmonizing educational and training capabilities in the field of the nuclear science and applications			