

IAEA ANNUAL REPORT 2009

Additional Annex Information

Table A19. Safety review service and expert missions in 2009

Type	State
Assessment mission of the occupational radiation protection programme and, in particular, the coverage of occupational exposed workers	Albania
Expert mission on assessment of capabilities for combating illicit trafficking in the western Balkan States	Albania
Fact finding mission to discuss remaining needs for physical protection upgrades	Algeria
Advisory mission on national infrastructure for the regulatory control of radiation sources	Angola
Expert mission to assist the Libyan counterpart to review the basic engineering design of the Tajoura new instrumentation and control system and to review the quality assurance programme of the supplier,	Argentina
Advisory mission to discuss technical specifications for safety improvement of the Metsamor nuclear power plant	Armenia
Expert mission to provide technical advise on regulatory control and monitoring of public exposure due to radon	Armenia
Follow up of the mission to assess the resolution of IAEA safety issues at the Armenia Nuclear Power Plant	Armenia
First project coordination meeting	Azerbaijan
Evaluation mission	Bangladesh
Expert mission on situation assessment concerning the safety and utilization of the research reactor, including safety of experiments	Bangladesh
Assessment mission to assess the country status on radiation protection	Bolivia
Expert mission on assessment of capabilities for combating illicit trafficking in the western Balkan States	Bosnia and Herzegovina
Expert mission to review and optimize project workplan 2	Burkina Faso
Advisory mission on national infrastructure for the regulatory control of radiation sources	Chad
Expert mission to monitor the improvement actions taken since the appraisal mission in 2007	Chile
Expert mission on the national assessment of strengths and needs in coordination with US GTRI	Chile
Advisory mission to support self-assessment	Chile

Type	State
Expert mission to present Agency guidelines for regulatory competence self-assessment and systematic training needs assessment	China
Appraisal mission to examine the national infrastructure for public exposure control and waste management	Cuba
Physical protection upgrades for nuclear material and nuclear facilities	Egypt
Advisory mission to provide guidance on preparation of regulatory requirements on site selection and evaluation	Egypt
Expert mission to review research reactor safety issues and the safety analysis report concerning the production of molybdenum-99	Egypt
Expert mission on the licensing process for nuclear installations	Egypt
Advisory mission to advise the Government on the establishment of a national regulatory framework for the safe and peaceful utilization of nuclear techniques	Eritrea
Site survey mission to Georgia (Customs and NRSS)	Georgia
Follow-up safety review mission on research reactor modifications	Greece
Expert mission to review the status of the radiation safety infrastructure	Haiti
Nuclear safety training of INRA staff under the Norwegian extrabudgetary contribution to Project IRA9018	Headquarters
Expert mission to provide technical assistance in finalizing the work plan for new project HUN4017 for the 2009–2011 cycle	Hungary
Preparatory mission on nuclear power plant computer security assessment	Hungary
Expert meeting on the framework and techniques for probabilistic safety assessment applications and risk informed decision making	Hungary
Expert mission on national assessment of strengths and needs in coordination with US GTRI	Indonesia
Technical fact finding mission to Indonesia for defining equipment and site specifications	Indonesia
Expert mission to review off-site emergency plan of the Bushehr nuclear power plant at INRA	Iran, Islamic Republic of
Review mission for Chapter 3 and coordination with the Chapter 15 of final safety analysis report	Iran, Islamic Republic of
Expert mission on safety standards on maintenance and spare parts management	Iran, Islamic Republic of

Type	State
Expert mission to assist regulatory body with regulatory oversight of commissioning and operation activities for the Bushehr nuclear power plant 1	Iran, Islamic Republic of
Fact finding mission on the establishment of a research reactor	Jordan
Expert mission to advise on suitability of the existing research reactor site	Jordan
Expert mission to review project work plan with counterparts and prepare for implementation of activities planned for 2009	Jordan
Expert mission to follow up technical implementation of the project	Kazakhstan
Expert mission to assess the implementation of the project and recommend modification	Kuwait
Expert mission on assistance to the regulatory authority	Kyrgyzstan
Advisory mission as follow up to 2006 RaSSIA	Latvia
Expert mission to review and advise on the results of the environmental monitoring programme for the Selaata phosphate plant	Lebanon
Expert mission for the evaluation of the environmental impact assessment report for a new nuclear power plant in Lithuania	Lithuania
Evaluation mission	Malaysia
Expert mission on assessment of capabilities for combating illicit trafficking in the western Balkan States	Montenegro
Expert mission on technical assessment and nuclear power review	Morocco
Fact finding mission for physical protection upgrades for selected vulnerable radioactive sources or associated facilities	Mozambique
Expert mission on assessment of national regulatory infrastructure for waste management, radiation protection and naturally occurring radioactive material	Mozambique
Fact finding mission for physical protection upgrades for selected vulnerable radioactive sources or associated facilities	Myanmar
Safety review mission to the HFR reactor	Netherlands
SALTO peer review mission, Borssele nuclear power plant	Netherlands
Expert mission to assess the new regulatory infrastructure in the country	Nicaragua
Advisory mission in relation to regulatory requirements for site selection and evaluation of a nuclear power plant	Nigeria

Type	State
Follow up of November 2008 mission to monitor technical progress under the project NIR/4/008	Nigeria
Fact finding mission	Oman
Expert mission to assess the current capabilities of the individual monitoring laboratory for external and internal dosimetry and provide guidance on laboratory layout and operational organization.	Pakistan
Technical meeting with Pakistan Nuclear Regulatory Authority and potential vendors to explain work involved and procurement process	Pakistan
Expert mission on appraisal of compliance of the Instituto Oncologico Nacional (ION) with international safety standards	Panama
Expert mission to implement the Regulatory Authority Information System (RAIS)	Peru
Assessment mission on nuclear security for EURO 2012	Poland
Expert mission to evaluate the present quality assurance/quality control practices on gamma spectrometry	Portugal
Expert mission to study/evaluate existing offers	Republic of Moldova
Expert mission to provide technical advice on establishing a radioactive monitoring capability and review response plan	Republic of Moldova
Expert mission to determine the specifications of equipment	Republic of Moldova
Preparatory mission, regarding research reactor safety aspects	Romania
Expert mission to assess liquid waste problems and implementation of site decommissioning, and to clarify human resource issues/training requirements in reference to the work plan	Romania
Peer review mission to support ANDRAD licensing efforts	Romania
Expert mission to provide technical assessment of the distribution of equipment.	Russian Federation
Advisory mission on national infrastructure for the regulatory control of radiation sources (EU-JA IV)	Senegal
Expert mission to provide technical support during the VIND programme team meeting with Vinca counterparts	Serbia
Expert mission on assessment of capabilities for combating illicit trafficking in the western Balkan States	Serbia
Safety review mission on the operational provisions of the final safety assessment report for the repackaging operation	Serbia
Expert mission to review and provide technical advice on the follow up of issues for the implementation of safety provisions	Serbia

Type	State
Expert mission to provide technical advice and meet with the new Serbian regulatory team and to begin formal planning of regulatory oversight for commissioning of the waste facilities	Serbia
Expert mission on national assessment of strengths and needs in coordination with US GTRI	Serbia
Expert mission to provide technical expertise and advice on safety issues related to spent nuclear fuel repackaging activities	Serbia
Expert mission to review VIND programme status for waste, fuel and decommissioning	Serbia
Technical fact finding mission to Serbia	Serbia
Review of integrated project schedule for fuel repatriation and to define milestones for the licensing process	Serbia
Expert mission to provide technical advice for safety and licensing documents for VIND activities	Slovenia
Expert mission to review the draft guidelines for monitoring and assessment of safety culture at Krsko nuclear power plant	Slovenia
Expert mission to provide technical expertise and input for identifying and developing adequate performance indicators for regulatory activities	Slovenia
Fact finding visit to seven facilities with Cat I and Cat II RS, Physical protection upgrades for selected vulnerable radioactive sources or associated facilities in South Africa (Cycle 4)	South Africa
Expert mission to advise the regulatory body on waste safety, decommissioning, remediation and elaboration of the work plan	South Africa
Expert mission to evaluate national needs and make recommendations on upgrading training infrastructure and establishing national training centre for training in radiation protection and the safety of radiation sources in Tajikistan	Tajikistan
Expert mission on the assessment of capabilities for combating illicit trafficking in the western Balkan States	The Former Yugoslav Republic of Macedonia
Follow up of expert mission to assess pending issues	Tunisia
EC–IAEA–Ukraine joint project on expert design safety review mission to Rovno 1	Ukraine
Assessment mission on nuclear security for EURO 2012	Ukraine
EC–IAEA–Ukraine joint project on expert design safety review mission to South Ukraine 2 and Rovno 2	Ukraine

Type	State
Expert mission to provide technical expertise on self-assessment process for regulatory bodies	Ukraine
EC–IAEA–Ukraine joint project on combined expert design safety review mission to ZNPP 1-6 and SUNPP3	Ukraine
EC–IAEA–Ukraine joint project on expert design safety review mission to R 3&4 and K1	Ukraine
Expert mission to review the development document and the list of selected SSCs for ageing management of the pilot units at South Ukraine	Ukraine
Expert mission to review progress on activities related to the UAE nuclear power programme, and to discuss possible IAEA interface	United Arab Emirates
Expert mission to provide independent review of British Energy's strategy/practices	United Kingdom
Expert mission to (i) assist and facilitate the Hungarian risk management nominees during the risk informed management (RIDM) sessions of the PWR Owners Group meeting in Florida, USA; (ii) assist and facilitate during their discussions and visit to the Crystal River nuclear power plant	United States of America
ORPAS Pre-mission	Uruguay
Expert mission to assess needs	Uzbekistan
Expert mission to Uzbekistan to evaluate actual status of existing equipment, training, strategy	Uzbekistan
Expert mission to assist VARANSAC to plan an integrated human resources recruitment and competence building programme based on the regulatory body functions and competencies required for a nuclear power programme	Vietnam
Advisory mission in relation to site selection and evaluation studies for the first nuclear power plant in Vietnam	Vietnam
Technical fact finding mission to Vietnam: Consultations with State authorities and border site visits for defining equipment and site specifications	Vietnam
Advisory mission on national infrastructure for the regulatory control of radiation sources	Zimbabwe

Table A20. Coordinated research projects initiated in 2009

Nuclear Power

- Improved Understanding of the Irradiation Creep Behaviour of Nuclear Graphite
- New Technologies for Seawater Desalination Using Nuclear Energy

Nuclear Fuel Cycle and Waste Technology

- Feasibility Evaluation of the Use of Low Enriched Uranium Fuelled Homogeneous Aqueous Solution Nuclear Reactors for the Production of Short Lived Fission Product Isotopes
- Spent Fuel Performance Assessment and Research (SPAR III)

Food and Agriculture

- Development and Evaluation of Improved Strains of Insect Pests for the Sterile Insect Technique
- Development of Generic Irradiation Doses for Quarantine Treatments
- Development of Radiometric and Allied Analytical Methods to Strengthen National Residue Control Programmes for Antibiotic and Anthelmintic Veterinary Drug Residues
- Enhancing the Efficiency of Induced Mutagenesis through an Integrated Biotechnology Pipeline
- Improving Nutritional Quality by Altering Concentrations of Enhancing Factors Using Induced Mutation and Biotechnology in Crops
- Isolation and Characterization of Genes Involved in Mutagenesis of Crop Plants

Human Health

- Development of Quality Audits for Radiotherapy Dosimetry for Complex Treatment Techniques
- Development of Quantitative Nuclear Medicine Imaging for Patient Specific Dosimetry
- Resource Sparing Curative Treatment for Rectal Cancer
- Short Course Versus Standard Course Radiotherapy, in Elderly and/or Fragile Patients with Glioblastoma Multiforme
- Stable Isotope Technique to Assess Human Milk Intake in Infants Living in Contaminated Areas
- Stable Isotope Techniques in the Development and Monitoring of Nutritional Interventions for Infants and Children with Malaria, TB and Other Infectious Diseases

Radioisotope Production and Radiation Technology

- Application of Nuclear Methods in Microstructural Characterization and Performance Testing of Materials for Hydrogen Fuel Cell and Storage Technologies
- Development of ¹⁸F-labelled Radiopharmaceuticals (beyond [¹⁸F]FDG) for Use in Oncology and Neurosciences
- Development, Characterization and Testing of Materials of Relevance to Nuclear Energy Sector Using Neutron Beams
- Light Element Atom, Molecule and Radical Behaviour in the Divertor and Edge Plasma Regions
- Nanoscale Radiation Engineering of Advanced Materials for Potential Biomedical Applications
- Prompt Fission Neutron Spectra of Actinides
- Use of Environmental Isotope Tracer Techniques to Improve Basin-scale Recharge Estimation

Nuclear Security

- Development of Methodology for Risk Assessment and State Management of the Nuclear Security Regime

Table A21. Coordinated research projects completed in 2009

Nuclear Power

- Natural Circulation Phenomena, Modelling and Reliability of Passive Systems That Utilize Natural Circulation

Nuclear Fuel Cycle and Materials Technologies

- Delayed Hydride Cracking of Zirconium Alloy Fuel Cladding

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

- Comparative Analysis of Methods and Tools for Nuclear Knowledge Preservation
- Greenhouse Gas Mitigation Strategies and Energy Options

Nuclear Science

- Atomic and Molecular Data for Plasma Modelling
- Atomic Data for Heavy Element Impurities in Fusion Reactors
- Development and Application of the Techniques of Residual Stress Measurements in Materials
- Development of Harmonized Quality Assurance/Quality Control Procedures for Maintenance and Repair of Nuclear Instruments
- Reference Database for Neutron Activation Analysis
- Unification of Nuclear Spectrometry Applications: Integrated Techniques as a New Tool for Material Research

Human Health

- Application of Isotopic and Nuclear Techniques in Studies Related to Intrauterine Growth Restriction Issues in Populations from Developing Countries
- Exposure to Toxic and Potentially Toxic Elements of Women of Childbearing Age in Developing Countries
- Harmonization of Quality Practices for Nuclear Medicine Radioactivity Measurements
- Resource Sparing Treatment of Head and Neck Cancer
- Standardization and Quality Control of In-house Prepared Radiopharmaceuticals for Nuclear Oncology
- Testing of the Implementation of the Code of Practice for Dosimetry in X Ray Diagnostic Radiology

Radioisotope Production and Radiation Technology

- Applications of Nuclear Analytical Techniques to Investigate the Authenticity of Art Objects
- Electron Beam Treatment of Organic Pollutants Contained in Gaseous Streams
- Improved High Current Liquid and Gas Targets for Cyclotron Produced Radioisotopes
- Validation of Tracers and Software for Inter-well Investigations

Management of Radioactive Waste

- Innovative and Adaptive Technologies in Decommissioning of Nuclear Facilities

Table A22. Publications issued in 2009**Nuclear Power**

- Advanced Reactor Technology Options for Utilization and Transmutation of Actinides in Spent Nuclear Fuel — IAEA-TECDOC-1626
- Country Nuclear Power Profiles: 2009 Edition
- Decommissioning of Fast Reactors after Sodium Draining — IAEA-TECDOC-1633
- Design Features to Achieve Defence in Depth in Small and Medium Sized Reactors (SMRs) — IAEA Nuclear Energy Series No. NP-T-2.2
- Development of Knowledge Portals for Nuclear Power Plants — IAEA Nuclear Energy Series No. NG-T-6.2
- Implementing Digital Instrumentation and Control Systems in the Modernization of Nuclear Power Plants — IAEA Nuclear Energy Series No. NP-T-1.4
- Initiating Nuclear Power Programmes: Responsibilities and Capabilities of Owners and Operators — IAEA Nuclear Energy Series No. NG-T-3.1
- Integrity of Reactor Pressure Vessels in Nuclear Power Plants: Assessment of Irradiation Embrittlement Effects in Reactor Pressure Vessel Steels — IAEA Nuclear Energy Series No. NP-T-3.11
- Intercomparison of Techniques for Inspection and Diagnostics of Heavy Water Reactor Pressure Tubes: Determination of Hydrogen Concentration and Blister Characterization — IAEA-TECDOC-1609
- International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) 2008 Progress Report
- Issues to Improve the Prospects of Financing Nuclear Power Plants — IAEA Nuclear Energy Series No. NG-T-4.1
- Lessons Learned from Nuclear Energy System Assessments (NESA) Using the INPRO Methodology: A Report of the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) — IAEA-TECDOC-1636
- Managing Human Resources in the Field of Nuclear Energy — IAEA Nuclear Energy Series No. NG-G-2.1
- Master Curve Approach to Monitor Fracture Toughness of Reactor Pressure Vessels in Nuclear Power Plants — IAEA-TECDOC-1631
- Non-electric Applications of Nuclear Power: Seawater Desalination, Hydrogen Production and Other Industrial Applications — Proceedings Series
- Nuclear Desalination Newsletter — No. 1, September 2009
- Nuclear Energy in the 21st Century: Addressing Energy Needs and Environmental Challenges — Proceedings Series
- Nuclear Power Newsletter — Vol. 6, No. 1, March 2009; No. 3, September 2009; No. 4, December 2009
- Nuclear Power Objectives: Achieving the Nuclear Energy Basic Principles — IAEA Nuclear Energy Series No. NP-O
- Nuclear Power Reactors in the World: 2009 Edition
- Operating Experience with Nuclear Power Stations in Member States in 2008: 2009 Edition (CD-ROM)
- Passive Safety Systems and Natural Circulation in Water Cooled Nuclear Power Plants — IAEA-TECDOC-1624
- Protecting Against Common-Cause Failures in Digital I&C Systems of Nuclear Power Plants — IAEA Nuclear Energy Series No. NP-T-1.5
- Responsibilities and Capabilities of a Nuclear Energy Programme Implementing Organization — IAEA Nuclear Energy Series No. NG-T-3.5
- Status and Trends of Nuclear Technologies: Report of the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) — IAEA-TECDOC-1622

- The Management System for Nuclear Installations — IAEA Safety Standards Series No. GS-G-3.5

Nuclear Fuel Cycle and Materials Technologies

- An Overview of Stakeholder Involvement in Decommissioning — IAEA Nuclear Energy Series No. NW-T-2.5
- Corrosion of Research Reactor Aluminium Clad Spent Fuel in Water — IAEA-TECDOC-1637
- Costing of Spent Fuel Storage — IAEA Nuclear Energy Series No. NF-T-3.5
- Determination and Use of Scaling Factors for Waste Characterization in Nuclear Power Plants — IAEA Nuclear Energy Series No. NW-T-1.18
- Establishment of Uranium Mining and Processing Operations in the Context of Sustainable Development — IAEA Nuclear Energy Series No. NF-T-1.1
- Experience of Shipping Russian-origin Research Reactor Spent Fuel to the Russian Federation — IAEA-TECDOC-1632
- Fuel Cycle and Waste Newsletter — Vol. 5, Nos 1 and 2, April and August 2009
- Geological Disposal of Radioactive Waste: Technological Implications for Retrievability — IAEA Nuclear Energy Series No. NW-T-1.19
- Good Practices for Qualification of High Density Low Enriched Uranium Research Reactor Fuels — IAEA Nuclear Energy Series No. NW-T-5.2
- Integrated Approach to Planning the Remediation of Sites Undergoing Decommissioning — IAEA Nuclear Energy Series No. NW-T-3.3
- Licence Applications for Low and Intermediate Level Waste Pre-disposal Facilities: A Manual for Operators — IAEA-TECDOC-1619
- Locating and Characterizing Disused Sealed Radioactive Sources in Historical Waste — IAEA Nuclear Energy Series No. NW-T-1.17
- Management of Damaged Spent Nuclear Fuel — IAEA Nuclear Energy Series No. NF-T-3.6
- Nuclear Fuel Cycle Information System. A Directory of Nuclear Fuel Cycle Facilities: 2009 Edition — IAEA-TECDOC-1613
- Policies and Strategies for Radioactive Waste Management — IAEA Nuclear Energy Series No. NW-G-1.1
- Research Reactor Modernization and Refurbishment — IAEA-TECDOC-1625
- Return of Research Reactor Spent Fuel to the Country of Origin: Requirements for Technical and Administrative Preparations and National Experiences — IAEA-TECDOC-CD-1593
- Spent Fuel Reprocessing Options — IAEA-TECDOC-CD-1587
- Use of Reprocessed Uranium: Proceedings of a Technical Meeting — IAEA-TECDOC-CD-1630
- World Distribution of Uranium Deposits (UDEPO), with Uranium Deposit Classification, 2009 Edition — IAEA-TECDOC-1629

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

- Energy, Electricity and Nuclear Power Estimates for the Period up to 2030: 2009 Edition
- Nuclear Information and Knowledge — Nos 7 and 8, June and December 2009
- Nuclear Technology and Economic Development in the Republic of Korea

Food and Agriculture

- Animal Production and Health Newsletter — Nos 49 and 50, January and July 2009
- Food and Environmental Protection Newsletter — Vol. 12, Nos 1 and 2, January and July 2009
- Induced Mutation in Tropical Fruit Trees — IAEA-TECDOC-1615
- Insect Pest Control Newsletter — Nos 72 and 73, January and July 2009

- Irradiation to Ensure the Safety and Quality of Prepared Meals
- Management of Agroforestry Systems for Enhancing Resource Use Efficiency and Crop Productivity — IAEA-TECDOC-CD-1606
- Manual for the Use of Stable Isotopes in Entomology
- Plant Breeding and Genetics Newsletter — Nos 22 and 23, January and July 2009
- Quality Control of Pesticide Products — IAEA-TECDOC-1612
- Selection and Breeding of Cattle and Buffalo in Asia: Strategies and Criteria for Improved Breeding — IAEA-TECDOC-1620
- Soils Newsletter — Vol. 31, No. 2, January 2009; Vol. 32, No. 1, July 2009

Human Health

- Assessment of Body Composition and Total Energy Expenditure in Humans Using Stable Isotope Techniques — IAEA Human Health Series No. 3
- Calibration of Reference Dosimeters for External Beam Radiotherapy — Technical Reports Series No. 469
- Clinical Training of Medical Physicists Specializing in Radiation Oncology — Training Course Series No. 37
- Clinical Translation of Radiolabelled Monoclonal Antibodies and Peptides — IAEA Human Health Series No. 8
- IAEA Syllabus for the Education and Training of Radiation Oncologists Endorsed by the American Society for Radiation Oncology (ASTRO) and the European Society for Therapeutic Radiology and Oncology (ESTRO) — Training Course Series No. 36
- Quality Assurance for PET and PET/CT Systems — IAEA Human Health Series No. 1
- Quality Assurance for SPECT Systems — IAEA Human Health Series No. 6
- Quality Assurance Programme for Screen-film Mammography — IAEA Human Health Series No. 2
- SSDL Newsletter — No. 57, July 2009
- Strategies for Clinical Implementation and Quality Management of PET Tracers

Water Resources

- Certified Reference Material IAEA-418: I-129 in Mediterranean Sea Water — IAEA Analytical Quality in Nuclear Applications Series No. 9
- Interlaboratory Comparison: Radionuclides in Irish Sea Water IAEA 443 — IAEA Analytical Quality in Nuclear Applications Series No. 10

Environment

- A Procedure for Determination of Po-210 in Water Samples by Alpha Spectrometry — IAEA Analytical Quality in Nuclear Applications Series No. 12
- A Procedure for the Rapid Determination of Pu Isotopes and Am-241 in Soil and Sediment Samples by Alpha Spectrometry — IAEA Analytical Quality in Nuclear Applications Series No. 11
- ALMERA Newsletter — No. 1, October 2009
- ALMERA Proficiency Test on the Determination of Po-210 in Water — IAEA-CU-2007-09 — IAEA Analytical Quality in Nuclear Applications Series No. 8
- ALMERA Proficiency Test on the Determination of Radionuclides in Spinach, Soil and Water IAEA-CU-2007-04 — IAEA Analytical Quality in Nuclear Applications Series No. 3
- Mediterranean Region Proficiency Test on the Determination of Radionuclides in Air Filters IAEA-CU-2008-02 — IAEA Analytical Quality in Nuclear Applications Series No. 2

- Proficiency Test of Ukrainian Laboratories Determination of Gamma Emitting Radionuclides — IAEA Analytical Quality in Nuclear Applications Series No. 6
- Quantitative X Ray Analysis System User's Manual and Guide to X Ray Fluorescence Technique — Computer Manual Series No. 21
- Soil Sampling Intercomparison Exercise by Selected Laboratories of the ALMERA Network — IAEA Analytical Quality in Nuclear Applications Series No. 1
- Worldwide Open Proficiency Test IAEA-CU-2007-09: A-Determination of Po-210 in Water — IAEA Analytical Quality in Nuclear Applications Series No. 7
- Worldwide Open Proficiency Test on the Determination of Radionuclides in Spinach, Soil and Water IAEA-CU-2007-03 — IAEA Analytical Quality in Nuclear Applications Series No. 8
- Worldwide Proficiency Test for X Ray Fluorescence Laboratories PTXRFIAEA/05 Determination of Minor and Trace Elements in Marine Sediment — IAEA Analytical Quality in Nuclear Applications Series No. 5
- X Ray Fluorescence in the IAEA and its Member States Newsletter — Nos 17 and 18, July and December 2009

Radioisotope Production and Radiation Technology

- Atlas of Isotope Hydrology: The Americas
- Controlling of Degradation Effects in Radiation Processing of Polymers — IAEA-TECDOC-1617
- Cyclotron Produced Radionuclides: Guidelines for Setting up a Facility — Technical Reports Series No. 471
- Cyclotron Produced Radionuclides: Physical Characteristics and Production Methods — Technical Reports Series No. 468
- Guidebook for Establishing a Sustainable and Accredited System for Qualification and Certification of Personnel for Non Destructive Testing — Training Course Series No. 34
- Installing, Running and Maintaining the Liquid-Water Stable Isotope Analyser (Multi-Media DVD)
- Laser Spectroscopic Analysis of Liquid Water Samples for Stable Hydrogen and Oxygen Isotopes — Training Course Series No. 35
- Leak Detection in Heat Exchangers and Underground Pipelines Using Radiotracers — Training Course Series No. 38
- Nuclear Data Newsletter — Nos 47 and 48, May and September 2009
- Technetium-99m Radiopharmaceuticals: Status and Trends — IAEA Radioisotopes and Radiopharmaceuticals Series No. 1
- Therapeutic Radionuclide Generators: $^{90}\text{Sr}/^{90}\text{Y}$ and $^{188}\text{W}/^{188}\text{Re}$ Generators — Technical Reports Series No. 470
- Water and Environment News — No. 25, September 2009

Incident and Emergency Preparedness and Response

- Common User Considerations (CUC) by Developing Countries for Future Nuclear Energy Systems: Report of Stage 1 — IAEA Nuclear Energy Series No. NP-T-2.1
- E-Learning Tools for First Response to a Radiological Emergency
- First Response to a Radiological Emergency: Training Materials
- INES: The International Nuclear and Radiological Event Scale User's Manual: 2008 Edition
- NS Update — No. 10, March 2009; No. 12, September 2009; No. 13, December 2009
- Portable Digital Assistant for First Responders to a Radiological Emergency
- The Radiological Accident in Nueva Aldea

Safety of Nuclear Installations

- Ageing Management for Nuclear Power Plants — IAEA Safety Standards Series No. NS-G-2.12
- Deterministic Safety Analysis for Nuclear Power Plants — IAEA Safety Standards Series No. SSG-2
- Evaluation of Seismic Safety for Existing Nuclear Installations — IAEA Safety Standards Series No. NS-G-2.13
- Proactive Management of Ageing for Nuclear Power Plants — Safety Reports Series No. 62
- Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors — IAEA Safety Standards Series No. NS-G-4.6
- Safety Assessment for Facilities and Activities — IAEA Safety Standards Series No. GSR Part 4
- Severe Accident Management Programmes for Nuclear Power Plants— IAEA Safety Standards Series No. NS-G-2.15

Radiation and Transport Safety

- Borehole Disposal Facilities for Radioactive Waste — IAEA Safety Standards Series No. SSG-1
- Classification of Radioactive Waste — IAEA Safety Standards Series No. GSG-1
- Compliance Assurance for the Safe Transport of Radioactive Material — IAEA Safety Standards Series No. TS-G-1.5
- Dose Reduction in CT while Maintaining Diagnostic Confidence: A Feasibility/Demonstration Study — IAEA-TECDOC-1621
- Establishing Guidance Levels in X Ray Guided Medical Interventional Procedures: A Pilot Study — Safety Reports Series No. 59
- Management of Radioactive Waste
- Predisposal Management of Radioactive Waste — IAEA Safety Standards Series No. GSR Part 5
- Radiation Protection in Newer Medical Imaging Techniques: Cardiac CT — Safety Reports Series No. 60
- Radiation Protection in Newer Medical Imaging Techniques: CT Colonography — Safety Reports Series No. 61
- Regulations for the Safe Transport of Radioactive Material: 2009 Edition — IAEA Safety Standards Series No. TS-R-1
- Release of Patients after Radionuclide Therapy — Safety Reports Series No. 63
- Safety Assessment for the Decommissioning of Facilities Using Radioactive Material— IAEA Safety Standards Series No. WS-G-5.2

Nuclear Security

- Development, Use and Maintenance of the Design Basis Threat — IAEA Nuclear Security Series No. 10
- Security of Radioactive Sources — IAEA Nuclear Security Series No. 11

Miscellaneous

- Compilation of IAEA Publications for UNDP Niger

Table A23. Training courses, seminars and workshops in 2009

Nuclear Power

- Electricity and Water Demand Assessment for Nuclear Energy Planning in GCC Kuwait
- Joint IAEA/ICTP School on Physics and Technology of Fast Reactor Systems Trieste
- Joint IAEA/ICTP Workshop on Effects of Mechanical Properties and Mechanisms Governing the Irradiation-induced Embrittlement of Pressure Vessel Steels Trieste
- Joint IAEA/ICTP Workshop on PC-based Simulators for Education Trieste
- Joint IAEA/ICTP Workshop on Technology and Performance of Desalination Systems Trieste
- Lectures on HEU, Nuclear Power and Society China
- Lectures on Nuclear Materials China
- Lectures on PSA and Reliability Analysis China
- Lectures on Reactor Physics China
- National Training Course on Codes and Standards for PWR Fuel Design and Manufacturing China
- National Training Course on Design, Construction and Procurement Management China
- National Training Course on Financial Analysis of Electric System Expansion Projects using FINPLAN Malaysia
- National Training Course on Instrumentation, Control Codes and Standards Used in Nuclear Power Plants China
- National Training Course on Natural Circulation Phenomena and Modelling of Water-cooled Nuclear Power Plants Italy
- National Training Course on Probabilistic and Deterministic Assessment of Pressurized Thermal Shock Phenomena in Nuclear Power Plants China
- NDE/ISI of Critical Component Key Issues for Plant Life Management China
- Systematic Approach to Training (SAT) for RINPO and Nuclear Industry Organizations China

Nuclear Fuel Cycle and Materials Technologies

- Assist Visit on Nuclear Knowledge Management for Nuclear Industry R&D Organizations Canada
- Assist Visit on the Assessment of the Status of Nuclear Education in Malaysia Malaysia
- Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development
- Data Collection for National Energy Demand Assessment Malawi
- Developers of ICT Materials Nigeria, Senegal
- Developing Projections of Future Energy Demand Patterns Malawi
- Energy Demand Assessment Bosnia and Herzegovina, Malawi

- Energy Demand Assessment Using IAEA's Model MAED Jamaica
- Energy Supply Assessment Using MESSAGE Nicaragua
- eTraining on MESSAGE Headquarters
- eTraining on MESSAGE Model for Elaborating Sustainable Energy Strategies Republic of Korea
- Financial Evaluation of Future Projects using FINPLAN Model Jordan
- Financing of Electricity Generation Projects Kenya
- FINPLAN Headquarters
- How to Formulate National Energy Plans and Strategies Ghana
- Human Resource Management and Knowledge Transition for Nuclear Power Plant Projects Malaysia
- In Situ Leach (ISL) Mining Technology Mongolia
- INIS Training Seminar 2009 Headquarters
- International Nuclear Information (INIS) South Africa
- Joint IAEA/ICTP Advanced Workshop on Development of Radiation Resistant Materials Science Trieste
- Joint IAEA/ICTP Workshop on Training in Basic Radiation Materials Science and Its Applications to Radiation Effects Studies and Development of Advanced Radiation-resistant Materials Trieste
- Joint IAEA/ICTP Training Course/Workshop on Alternative Response Actions to Climate Change and Energy Options Italy
- Joint IAEA/ICTP Training Course/Workshop on the School of Nuclear Knowledge Management Italy
- KAERI-KOICA TC on Nuclear Power Policy, Planning and Project Management Republic of Korea
- Modelling Energy Infrastructure Using the MESSAGE Analytical Tool Peru
- Modelling Regional Energy Infrastructure and Energy Security USA
- National Training Course on Electric Grid Reliability and Interface with Nuclear Power Plants Vietnam
- National Training Course on Electric System Expansion Planning (WASP) Headquarters
- National Training Course on Energy Demand Assessment Using IAEA's Model MAED Malaysia
- National Training Course on General Aspects of Uranium Production Cycle Mongolia
- National Training Course on Giving Lectures for Accelerator School 2009 Indonesia
- National Training Course on the Use of WASP for Electric System Expansion Planning in Malaysia Malaysia
- Nuclear Management for National Infrastructure Development Philippines
- Pre-training on MESSAGE Algeria
- Regional Training Course on Nuclear Power Infrastructure and Emerging Nuclear States USA
- STL in R&D Institutions Bulgaria

- Sub-regional Training Course Headquarters
- Teachers' Training on IAEA's Energy Supply Model MESSAGE Croatia
- The IAEA MESSAGE Model Georgia
- The Use of IAEA's Energy Supply Model MESSAGE Libyan Arab Jamahiriya
- Training Course on Safety Assessment of Nuclear Power Plants Republic of Korea
- Training Course on The IAEA Tool MESSAGE Algeria
- Uranium Geology and Exploration Brazil
- WASP Bosnia and Herzegovina

Nuclear Science

- Acceptance Test for Dual-head Gamma Camera Seibersdorf
- Advanced In Situ X Ray Fluorescence and Gamma Ray Spectrometry Italy
- Advanced Level Maintenance of Gamma Cameras Ghana
- Advanced Maintenance and Repair of MEDISO Spirit Gamma Cameras Seibersdorf
- Advanced Maintenance of Siemens e.cam Gamma Cameras Ghana
- Advanced Nuclear and Related Analytical Techniques in Art and Archaeology Jordan
- Application of Nuclear Techniques in Development of New Structural Materials for Advanced Fission and Fusion Reactor Systems Spain
- Applications of Nuclear Techniques for Characterization and Preservation of Cultural Heritage Artefacts Ukraine
- Calibration of Test Instruments United Republic of Tanzania
- Development of ICT-based Training Materials (Advanced) Senegal
- Development of ICT-based Training Materials (Basic) Nigeria
- Evaluation of Analytical Data, Source Identification and Source Apportionment Portugal
- EXFOR Editor Training Headquarters
- ICTP/IAEA School on Novel Synchrotron Applications Italy
- In Situ X Ray Fluorescence and Gamma Ray Spectrometry Italy
- Information Communication Technologies in Training and Learning in Nuclear Science and Technology South Africa
- Instrument Protection and Power Conditioning Niger
- Instrumentation Sudan
- Joint IAEA/ICTP Advanced Workshop on Development of Radiation Resistant Materials Trieste
- Joint IAEA/ICTP Workshop on Advanced Simulation and Modelling for Ion Beam Analysis Italy
- Joint IAEA/ICTP Workshop on Atomic and Molecular Data for Fusion Italy
- Joint IAEA/ICTP/RID Workshop on Neutron Probing for Compositional and Structural Characterisation of Materials and Biological Samples Italy, Netherlands

- LabVIEW Software (Virtual Instrumentation) Mexico, Peru
- Maintenance and Quality Control of Fluoroscopy and Digital X Ray Machines Sudan
- Maintenance of Industrial X Ray Machines Uruguay
- MEDISO Spirit Gamma Cameras Seibersdorf
- Method Validation and Uncertainty Estimation Kazakhstan
- Organization of PTs and Data Evaluation El Salvador
- Programmable Logic Controllers (PLCs) Sudan
- Regional Training Course on Basic and Advanced Statistical Treatment of Data Uruguay
- Regional Workshop on Technical Quality Assurance Requirements, Method Validation and Uncertainty Estimation (RLA2014) Guatemala
- Semiconductor Detectors: Theory, Operation and Maintenance Algeria
- Updating Knowledge Related to the LabVIEW Software Mexico, Peru
- Utilization of Nuclear Techniques in Art and Archaeology Headquarters, Seibersdorf
- Workshop on Atomic and Molecular Data for Fusion Applications Italy

Food and Agriculture

- Antioxidants Analysis Hungary
- Area-wide Integrated Pest Management of Tephritid Fruit Flies China
- Bioinformatics Morocco
- Clinical Pathological Molecular Technologies of Animal and Human Fascioliasis Peru
- CM — Use of Irradiation for Shelf Stable Foods for Immunocompromised Patients and Other Specific Target Groups Headquarters
- Cytogenetics and In Vitro Techniques Bulgaria
- Early Diagnostic Training South Africa
- Enzyme Purification Training Workshop Seibersdorf
- Estimation of Pesticide Loads in a Microcatchment Costa Rica
- FAO/IAEA–European Commission ConFluTech Project Training Course on Advanced Molecular Diagnosis and Characterization of Influenza A (H5N1) and (H1N1) Seibersdorf
- FAO/IAEA Regional Training Indian Ocean Fruit Fly Workshop Mauritius
- FAO/IAEA Regional Workshop on Integrated Analytical Approaches to Monitor Indicators of the Effectiveness of Pesticide Management Practices and Compliance with Maximum Residue Limits Brazil
- First Level Regional Training Course on the Estimation of Pesticide Loads in a Microcatchment, Revision of Sampling Plans, Use of PIRI, GIS, and LIMS Bioindicator/Bioassay and Analytical Techniques (RLA5053) Costa Rica
- Genomic DNA Preparation Headquarters
- Genomic DNA Preparation, Microsatellite Analyses and Sequencing Seibersdorf
- *Glossina palpalis gambiensis* Senegal
- IAEA/RCA Regional Training Course on Mutation Breeding Approaches to Improving Disease Resistance India

- IAEA/RCA Regional Training Course on Mutation Breeding Approaches to Improving Protein and Starch Quality Australia
- IAEA/RCA Regional Training Course on Mutation Breeding for Crop Disease Resistance India
- IAEA/RER Regional Training Course on Cytogenetics and In Vitro Techniques in Mutagenesis and Radiation-induced Gene Transfer Bulgaria
- IAEA/RER Regional Training Workshop on Standardizing Methods for Antioxidants Analysis in Solanaceous Food Crops Hungary
- Implementation of SMTA Seibersdorf
- Integrated Soil, Water and Nutrient Management in Conservation Agriculture Headquarters
- Isotopic Techniques in Soil Nutrient Management Uganda
- Joint FAO/IAEA International Training Course on Novel Biotechnologies and Molecular Technologies for Enhancing Mutation Induction Efficiency Seibersdorf
- Methodology of Participatory Plant Breeding United Republic of Tanzania
- Molecular Diagnostic and PCR Training Workshop South Africa
- Molecular Epidemiology and Transmission of Fascioliasis Uruguay
- Molecular Techniques Botswana
- Mutation Induction for the Improvement of Main Food Crops in Latin America Peru
- Novel Applications of Food Irradiation Technology for Improving Socioeconomic Development (RCA) (RAS5046) China
- Old World Screwworm Standardized Veterinary Sampling and Differential Diagnosis Oman
- Pathotyping for Wheat Stem Rust Kenya
- RCA Regional Training Course on Mutation Breeding Approaches to Improving Protein and Starch Quality Australia
- Regional (AFRA) Training Course on Transboundary Animal Disease Surveillance (RAF5057/003) Uganda
- Regional Training Course on Clinical Pathological Molecular Technologies of Animal and Human Fascioliasis and the Treatment and Measures of Control (RLA049/005) Peru
- Regional Training Course on Fruit Fly Management Brazil
- Regional Training Course on Molecular Epidemiology and Transmission of Fascioliasis, Nuclear Related Techniques Applied to the Interaction of Host and Parasite (RLA5049/004) Uruguay
- Regional Training Course on Molecular Techniques (RAF5057/001) Botswana
- Regional Training Course on the Implementation of the SMTA through Options and Guide on Practices, Procedures, Legal Matters and Policies in the Multilateral System Seibersdorf
- Regional Training Course on the Use of Fallout Radionuclides (FRN) for Estimating Soil Erosion and Assessing the Effectiveness of Soil Conservation Measures Cuba
- Regional Training Course on the Use of Irradiation as a Phytosanitary Application for Economically Important Fruits China

- Regional Workshop on Integrated Olive Fruit Fly Control and the Sterile Insect Technique Spain
- Residues Seibersdorf
- Rift Valley Workshop Egypt
- Sampling Procedures and Sample Preparation El Salvador
- Seminar on the Use of Fallout Radionuclides Switzerland
- Small-scale Irrigation Technologies and Management for Scientists Benin
- Strategic Project Management: A Methodological Approach to Tsetse Fly Eradication and Control Swaziland
- TILLING Techniques Vietnam
- Training on Radiotracer Techniques in Residues Analysis Panama
- Training on Sampling of Fresh Fruits and Vegetables for Compliance with Codex MRLs United Arab Emirates
- Train-the-Trainers Workshop on Screening/Post-Screening Techniques for Veterinary Drug Training Course on the Application of Gas Chromatography-Mass Spectrometry for the Control of Food and Environmental Contaminants Seibersdorf
- Transboundary Animal Disease Surveillance Senegal, Uganda
- Use of Fallout Radionuclides (FRN) for Estimating Soil Erosion Cuba
- Workshop of the IPPC Technical Panel on Pest Free Areas and Systems Approaches for Fruit Flies Headquarters
- Workshop of the IPPC Technical Panel on Phytosanitary Treatments Japan
- Workshop on DNA Isolation and Detection of Tsetse Pathogens and Symbionts Using PCR Burkina Faso
- Workshop on Establishing and Maintaining Fruit Fly Free and Low Prevalence Areas in Central America, Panama and Belize, Using the Sterile Insect Technique Guatemala
- Workshop on Pesticide Residue Sampling United Arab Emirates
- Workshop on Suppressing the Mediterranean Fruit Fly by Integrating the Sterile Insect Technique on an Area-wide Basis in the Neretva Valley of Croatia and Bosnia and Herzegovina Croatia

Human Health

- Assessment of Human Milk Intake Using Mother-to-Child Deuterium Dilution Dose Chile
- IAEA/EANM Cardiovascular Training Course Headquarters
- IAEA/EANM Learning Course on PET and PET/CT in Oncology Headquarters
- IAEA/EANM Technologists PET/CT Course Headquarters
- IAEA/ESTRO Teaching Course on 2D–3D Planning and Imaging Russian Federation
- IAEA/ESTRO Teaching Course on Best Practice in Radiation Oncology — Workshop to Train Radiation Technology Trainers Netherlands
- IAEA/ESTRO Teaching Course on Dose Calculation and Verification for External Beam Therapy Germany
- IAEA/ESTRO Teaching Course on IMRT and Other Conformal Techniques in Practice Poland

- IAEA/ESTRO Teaching Course on Radiotherapy Treatment Planning Principles and Practice Ireland
- IAEA/RCA Regional Training Course on Advanced Clinical Applications of PET Japan
- IAEA/RCA Regional Training Course on Quality Assurance in Nuclear Medicine for Medical Physicists Indonesia
- IAEA/RCA Regional Training Course on Quality Management of Positron Emission Tomography (PET) China
- IAEA/RCA Regional Training Course to Train the Trainers on the Use of the New DAT Modules Singapore
- ICTP/IAEA Advanced School on Dosimetry in Diagnostic Radiology and Its Clinical Implementation Italy
- Medical Protection and Optimization in CT Nicaragua
- National Teaching Course on Modern Radiotherapy Aspects: Part II Lithuania
- National Training Course for Radiotherapy Technologists Poland
- National Training Course on Assessment of Body Composition Using the Stable Isotope Technique Mauritius
- National Training Course on Quality Assurance, Dosimetry and Optimization for Diagnostic Radiology Indonesia
- National Training Course on Quality Assurance in Diagnostic Radiology Bosnia and Herzegovina
- National Training Course on Quality Assurance in Treatment Planning Systems Philippines
- Radiation Protection Bulgaria
- Regional (AFRA) Training Course on Implementation of 3-D Conformal Radiotherapy Egypt
- Regional (AFRA) Training Course on Acceptance Testing of a Dual-Head Gamma Camera Seibersdorf
- Regional (AFRA) Training Course on Gastrointestinal Cancer Uganda
- Regional (AFRA) Training Course on Image Processing, Reconstruction, Analysis and Quantification South Africa
- Regional (AFRA) Training Course on Genitourinary Cancer Tunisia
- Regional (AFRA) Training Course on Implementation of IAEA TRS 430 on Quality Assurance for Radiotherapy Treatment Planning Systems Algeria
- Regional (AFRA) Training Course on In-vitro and In-vivo Nuclear Medicine in the Management of Thyroid Disease Mali
- Regional (AFRA) Training Course on Medical Physics Aspects in Low and High Dose Rate Brachytherapy Morocco
- Regional (AFRA) Training Course on SPECT in Nuclear Oncology Algeria
- Regional (AFRA) Training Course on the Use of Information Communication Technology (ICT) Materials for Medical Physicists Specializing in Nuclear Medicine Ghana
- Regional Training Course for Trainers in Quality Management — Train the Trainers Peru

- Regional Training Course on Combined SPECT-CT and PET-CT in Clinical Nuclear Medicine Cyprus
- Regional Training Course on Data Analysis on Assessment of Body Composition, Physical Activity and Energy Expenditure Ecuador
- Regional Training Course on Evidence Based Radiation Oncology for Breast Cancer Turkey
- Regional Training Course on Fulfilment of the Requirements of ISO15189 and Biosafety Training Thailand
- Regional Training Course on Imaging in Ischaemic Heart Disease and Cardiac Failure (for Beginners) Republic of Korea
- Regional Training Course on Management and Analysis of Physical Activity and Energy Expenditure Data Argentina
- Regional Training Course on Medical Protection Brazil
- Regional Training Course on Nuclear Cardiology in Ischaemic Heart Disease Dominican Republic
- Regional Training Course on Physical Aspects on Quality Assurance for 3D-CRT — Implementation of IAEA-TECDOC-1151 Brazil
- Regional Training Course on QA in Nuclear Medicine for Medical Physicists Bangladesh
- Regional Training Course on Radiotherapy of Most Common Cancers in the Region (Evidence Based) Dominican Republic
- Regional Training Course on SPECT in Cardiology and Oncology Uzbekistan
- Regional Training Course on Stable Isotope Techniques in Nutrition Australia
- Regional Training Course on Standard Operating Procedures for Isotope Techniques in Infant and Young Child Nutritional Status United Republic of Tanzania
- Regional Training Course on the Implementation of the International Code of Practice for Radiotherapy Dosimetry (IAEA TRS-398) Based on Absorbed Dose to Water Standards Jordan
- Therapeutic Radiopharmaceutical Production, QA/QC and implementation of GMP Philippines
- Workshop on the Use of TRS-398 for Absorbed Dose Determination for Radiotherapy Indonesia

Water Resources

- Advanced Regional Training Course on Isotope Techniques for River Basin Management, Including River–Groundwater Interactions USA
- Coordination and Operational Requirements for Isotope Hydrology Laboratories Headquarters
- Hispano-American Course on Groundwater Hydrology Uruguay
- Intermediate Isotope Hydrology Egypt
- Isotope Hydrology Ethiopia, Georgia
- Isotope Techniques for River Basin Management USA
- Nubian Aquifer Groundwater Modelling Headquarters, USA
- Training Course on Basic Isotope Hydrology Ethiopia
- Workshop on Installation and Use of the LGR Laser Isotope Instrument Headquarters

Environment

- Ecological Risk Assessment Monaco
- Production and Certification of Matrix Reference Materials Chile
- Radionuclides (Radioactivity) Egypt
- Receptor Binding Assay Namibia
- Regional Training Course on Application of Electronic Registry of Highly Contaminated Lands for Evaluation of Areas Affected by the Chernobyl Accident Ukraine
- Regional Training Course on Application of Nuclear and Stable Isotope Tracers to Determine the Fate and Behaviour of Nuclear Contamination Indonesia
- Regional Training Course on Establishment of Dose Response and Risk Assessment for Marine Organisms from Contamination Released Monaco
- Regional Training Course on Radioecology and Radiation Protection of the Environment Headquarters
- Regional Training Course on Using Back Trajectory Schemes to Link Pollution Transport across the Region and Beyond Mongolia
- Seminar on Uptake of Radionuclides into Staple Crops in the Asian Region Republic of Korea
- Soil Sampling Strategies, Techniques, Equipment, Sample Preparation Jordan
- Taxonomy and Monitoring of Toxic Marine Microalgae Mexico

Radioisotope Production and Radiation Technology

- Application of Tracer Technology and Sealed Sources in Industry El Salvador
- Applications of Radiotracer Technology in the Phosphate Industry Morocco
- Basic and Advanced Statistical Treatment of Data Uruguay
- Basic Applications of Radiation Modification of Polymers for Agriculture Thailand
- Digital Industrial Radiology (DIR) Malaysia
- Dosimetry and Process Control (QA&QC) and Dosimetry Intercomparison Exercise Egypt
- Establishment and Implementation of Quality Management System (QMS) in Radiation Processing Facilities, Romania
- IFIN/ICTP/IAEA Workshop on Trends in Nanoscience: Theory, Experiment, Technology Romania
- Industrial Compatibility, Maintenance and Calibration of Equipment for Industrial Radiotracer (RCA) Vietnam
- Irradiation of Aromatics and Herbal Plants Morocco
- Group 2 Assessor Ghana
- Methodology and Applications of Radiotracers in Ore Processing and Mills Ghana
- Nanomaterials and Radiation: Synthesis, Characterization, Application France

- Organization, Evaluation and Reporting of Interlaboratory Comparisons and Proficiency Tests El Salvador
- Preparation of Reference Materials Chile
- QMS in Radiation Processing Facilities Romania
- Qualification of Personnel to Level III South Africa, Tunisia
- Quality Control and Quality Assurances of Radiation Facility Operation and Dosimetry India
- Radiotracer Technology Applications in the Evaluation of Waste Water Treatment Plants Cuba
- Refresher Training Course and Re-examination for Level II Ethiopia
- Regional Training Course on Digital Industrial Radiography and Computed Tomography Applications in Industry Malaysia
- Regional Training Course on Quality Control and Quality Assurances of Radiation Facility Operation and Dosimetry India
- Regional Training Course on the ISO 17025 Requirements United Arab Emirates
- Safe Operation of Radiation Facilities Ghana
- Therapeutic Radiopharmaceuticals: Production and QA/QC under GMP Philippines
- Tomography in Distillation Columns in Petrochemical Industry Ecuador
- Tracer Application for Flow Rate and RTD Measurements in Phosphate Industry Tunisia
- Workshop on Harmonization, Implementation and USE of QA/QC Methods Uruguay
- Workshop on the Assessment and the Necessity of Prioritizing in the Protection of Cultural Heritage Artefacts in the European Region Bosnia and Herzegovina

Nuclear Safety and Security Coordination

- Good Practices on Using INES Headquarters
- Integrated Knowledge Management Workshop Spain
- Project on Nuclear Safety Nuclear Safety of the Iberoamerican Forum of Nuclear and Radiation Safety of Regulatory Organizations Brazil
- Regional Training Course on Medical Protection and Interventional Procedures Brazil
- Regional Workshop for Sharing Experience in the Application of Knowledge Management Methods for Competence Building Bangladesh
- Train-the-Trainers on INES Headquarters
- Workshop on IT Development (Development of the NET) Chile

Incident and Emergency Preparedness and Response

- Emergency Planning and Preparedness Namibia
- Emergency Preparedness Exercise USA
- First Responders Colombia, Côte d'Ivoire, Niger
- First Response to Radiological Emergencies Costa Rica, Ecuador
- Fundamentals of Emergency Planning and Preparedness Ghana, Morocco, Qatar, Venezuela

- Medical Preparedness and Response to Radiological Incidents/Accidents Zambia
- National Course for First Responders to Radiation Emergencies Saudi Arabia
- National Course on Emergency Planning, Preparedness and Response Headquarters
- National Course on Medical Response to Radiation Emergencies Mexico, Saudi Arabia
- Practical Response to Radiological Emergencies Slovenia
- Practical Response to Radiological Emergencies (for First Responders) — RER9100 Venezuela
- Regional Course on Application of International Requirements in Radiological Emergency Preparedness and Response and Guidance on Developing Relevant National Capabilities Ghana
- Regional Course on Application of the Requirements (GS-R-2) and Guidance on Developing National Capability for Response to Nuclear or Radiological Emergencies Venezuela
- Regional Course on EPR Fundamentals for English Speaking Countries — RAF9040 Ghana
- Regional Course on GS-R-2 Requirements and Guidance for Response to Emergencies Venezuela
- Regional Course on Medical Response to Radiological Emergencies — RAS9057 Qatar
- Regional Course on Practical Response to Radiological Emergencies (for First Responders) — RER9100 Slovenia
- Regional Course on Response to Medical Emergencies Qatar
- Workshop on Emergency Response – Off-site Liaison with On-site Philippines
- Workshop on Generic Procedures for Response to Emergencies at Research Reactors Headquarters
- Workshop on Implementation of RANET Capabilities in Medical Response to Radiation Emergencies Headquarters
- Workshop on Infrastructure Needed for Off-Site and On-Site Emergency Preparedness and Response Activity and on Medical Treatment Malaysia
- Workshop on Radiological Emergencies Argentina
- Workshop on the Latest Emergency Preparedness and Response Capabilities and Arrangements Headquarters

Safety of Nuclear Installations

- 3rd Workshop of the Nuclear Safety Project on Regulatory Practices in Ageing Management and Life Extension of Nuclear Power Plants Argentina, Spain
- Basic Professional Training Course Nigeria
- Community Model Interface for Tsunami (ComMIT) Training Course Republic of Korea
- EC-IAEA-Ukraine Workshop on Revision 3 of Task 1 Technical Guidelines for the EC-EBP-Ukraine Joint Project Ukraine
- First EFAST Workshop at the Joint Research Centre Italy
- Induction Training Course on Radiation Protection Angola
- Inspection, Mitigation and Repair of Dissimilar Metal Welds Republic of Korea

- National Course on IAEA Basic Professional Training Course (BPTC) at Induction Training Bangladesh
- National Course on Integrated Management System Philippines
- National Workshop on Milestones for the Development of Infrastructure for a Nuclear Power Plant Libyan Arab Jamahiriya, Venezuela
- NOR-INRA Training Workshop IRA/9/018 Headquarters
- Nuclear Fuel Management USA
- OSART Seminar at Armenian Nuclear Power Plant ARM9021 Armenia
- Pilot Project, Verification of OSART Module – Transition from Operations to Decommissioning Slovakia
- Radiation Safety for the New NRPA Cameroon
- Regional Basic Professional Training Course — RER/9/099 Lithuania
- Regional Course on Fuel Issues — RER/3/008 USA
- Regional Course on IAEA Basic Professional Training at Induction Training Bangladesh
- Regional Course on Nuclear Power Infrastructure Programs and Related Projects in Emerging Nuclear States USA
- Regional Course on Sharing Experience in the Application of Knowledge Management (KM) Method for Building Competence Bangladesh
- Regional Workshop on Advanced Safety Assessment Tools and Methods Including Best Estimate Plus Uncertainty Analysis — RER/9/095 Croatia
- Regional Workshop on Communicating Nuclear Safety Issues to the Public and Media Germany
- Regional Workshop on Deterministic Analyses for the Assessment of Safety Margins in Nuclear Power Plant Design and Modifications — RER/9/095 Slovenia
- Regional Workshop on Deterministic Safety Analysis as Part of the Periodic Safety Review and Plant Life Extension USA
- Regional Workshop on Essential Safety Assessment Knowledge: An Introduction to DSA and PSA Italy
- Regional Workshop on Governmental and Regulatory Infrastructure China
- Regional Workshop on Operational Events, Transients and Precursor Analyses Netherlands
- Regional Workshop on Operational Radiation Safety in Research Reactors Malaysia
- Regional Workshop on Strengthening Research Reactor Safety and the National Nuclear Safety Infrastructure USA
- Regional Workshop on Training Needs Assessment Headquarters
- Safety Assessment of Nuclear Power Plants Turkey
- Seminar on Systematic Training Needs Assessment for the Regulatory Body Bangladesh
- Training Course on Safety Analysis and Regulatory Requirements for Research Reactor Modification Malaysia
- Training Course on Safety Assessment of Nuclear Power Plants — RAS/0/059 Republic of Korea

- Training Course on Safety Assessment of Nuclear Power Plants to Assist Decision Making — RER9/0 Turkey
- Training Course on Evaluation of Uncertainties in Best Estimate (BE) Accident Analysis China
- Training Course on Regulatory Control for Licensing of New Nuclear Power Plant Projects Republic of Korea
- TSA 1 Uganda
- Workshop of the Probabilistic Safety Assessment (PSA) Working Group of the WWER Regulator's Forum Finland, Hungary
- Workshop on Communication and Stakeholder Involvement Bahrain
- Workshop on Development of Instructors/Trainers of Peer Review Reviewers China
- Workshop on Evaluation of Uncertainties in Best Estimate Accident Analysis for Advance PWRs China
- Workshop on Event Analysis and Root Causes Including Human and Organizational Factors Netherlands
- Workshop on Experience in Building up Competence in Nuclear Safety for Countries Embarking on Nuclear Power Japan
- Workshop on Export Credits: Environmental Standards for Nuclear Power Plants Italy
- Workshop on Human Resource Management and Knowledge Transition for Nuclear Power Plant Projects Malaysia
- Workshop on IAEA Safety Standards Dealing with Water Chemistry Iran, Islamic Republic of
- Workshop on Neutronic Analyses of BNPP-1 Reactor Core Iran, Islamic Republic of
- Workshop on Periodic Safety Review or Research Reactors Thailand
- Workshop on Plant Life Management and Long Term Operation of Nuclear Power Plants Argentina
- Workshop on Predictive and Preventive Maintenance Programme Development Iran, Islamic Republic of
- Workshop on Public Communications Programme Establishment and Management of Nuclear Power Plant Projects China
- Workshop on Regulatory Inspection and Enforcement Romania
- Workshop on Regulatory Oversight During Operation of Research Reactors Indonesia
- Workshop on Regulatory Policy and Leadership in the Management System Iran, Islamic Republic of
- Workshop on Safety Management and Verification for Research Reactors Vietnam
- Workshop on Siting Republic of Korea
- Workshop on the Development of the Draft Guidelines for Monitoring and Assessment of Safety Culture Slovenia
- Workshop on the Preparation for the OSART Missions to the Dukovany and Temelin Nuclear Power Plants Czech Republic
- Workshop to Establish a Management System within the Egyptian Regulatory Body Egypt
- Workshop/Seminar at the Ringhals Nuclear Power Plant Sweden

Radiation and Transport Safety

- 1st Regional Workshop on Establishing Regulatory Requirements and Guidance on Education, Training, and Qualification Uzbekistan
- 5th Regional RECAN Workshop on the Role of the Technical Services Organizations in the Optimization of Radiation Protection Kazakhstan
- Analytical Data, Source Identification and Source Apportionment Portugal
- Assessment of Occupational Exposure Lithuania
- Authorization and Inspection of Radiation Sources Morocco, Nigeria
- Chronic Exposure Scenarios and Remediation Strategies Namibia
- Cours régional de formation sur l'élaboration des stratégies et politiques nationales sur la gestion efficace des déchets radioactifs Burkina Faso
- External Dosimetry Kazakhstan
- High Level National Workshop on Radioactive Waste Management Policy and Strategy Mexico
- IAEA Basic Professional Training Course (BPTC) at Induction Training Nigeria
- Inaugural Project Workshop — Explaining the Environmental Remediation Process Brazil
- Internal Dose Assessment Czech Republic
- International Workshop: Demonstrating the Safety and Licensing of Radioactive Waste Disposal South Africa
- International Workshop on Justification of Medical Exposure in Diagnostic Imaging Belgium
- International Workshop on Remediation of Legacy Facilities and Sites – Challenges, Lessons Learned and Ways Forward Headquarters
- International Workshop on Remediation of the Former Uranium Mining and Processing Legacy Sites in Hungary and Related International Experience Hungary
- International Workshop on Sustainable Management of Disused Sealed Radioactive Sources (DSRS) — Working toward Disposal Thailand
- La gestion efficace des déchets radioactifs Burkina Faso
- Management Systems for Occupational Radiation Exposure Control Cuba
- Master of Science Degree in Radiation Protection and Safety Syrian Arab Republic
- National Regulatory Infrastructure for Safety South Africa
- National Workshop on Monitoring and Regulatory Control of Exposure Due to Radon Bulgaria
- Nuclear Safety Lithuania
- Post-graduate Course Leading to the MS Degree in Radiation Protection Syrian Arab Republic
- Post-graduate Course on Radiation Protection Malaysia, Morocco
- Post-graduate Educational Course on Radiation Protection and Safety of Radiation Malaysia
- Prevention of Accidental Exposures in Radiotherapy and Risk Analysis Methodology Chile

- Radiation Protection Bulgaria, Sierra Leone, Ukraine
- Radiation Protection and Safety in Industrial Radiography for Regulators Brazil
- Radiation Protection for Customs and Border Control Officers Headquarters
- Radiation Protection for Workers and Public Namibia
- Radiation Safety for Customs Officers Botswana
- Radiation Safety for Lawyers Nigeria
- Radiation Safety for Radiation Safety Officers in Industry Radiation Facilities United Republic of Tanzania
- Radiation Safety for Radiation Safety Officers in Medical Diagnostic X Ray Facilities United Republic of Tanzania
- Regional AFRA Training Course for Regulators on Authorization and Inspection of Radiation Sources Morocco
- Regional Course on Establishment of Quality Management Programmes Applicable to All Technical Services Bangladesh
- Regional Course on Radiation Protection in Hybrid Imaging (PET/CT, SPECT/CT) Singapore
- Regional Course on Strengthening of Radiation Protection in Cardiology and Electrophysiology Philippines
- Regional Train-the-Trainer Training Course for Radiation Protection Officers (RPO) Montenegro
- Regional Training Course for Regulatory Control in Industrial Irradiators Brazil
- Regional Training Course on Advanced Methods for Internal Dose Assessment: Application of IDEAS Guidelines and Dissemination of CONRAD Internal Dosimetry Results Czech Republic
- Regional Training Course on Assessment of Occupational Exposure due to Intakes of Radionuclides Lithuania
- Regional Training Course on Management Systems for Occupational Radiation Exposure Control Cuba
- Regional Training Course on Prevention of Accidental Exposures in Radiotherapy and Risk Analysis Methodology Chile
- Regional Training Course on Radiation Protection Argentina
- Regional Training Course on Radiation Protection and Safety in Industrial Radiography for Regulators Brazil
- Regional Training Course on Radiation Protection for Doctors Using Fluoroscopy Mauritius
- Regional Training Course on Radiation Protection in Hybrid Imaging Lebanon, Singapore
- Regional Training Course on Radiation Safety for Customs and Border Control Officers Headquarters
- Regional Training Course on Self-Assessment of National Regulatory Infrastructures for Safety Nigeria, Tunisia
- Regional Training Course on Strengthening of Radiation Protection in Cardiology and Electrophysiology Philippines
- Regional Training Course on the Establishment of Quality Management Programmes Applicable to All Technical Services Bangladesh

- Regional Training Course on the Regulatory Authority Information System (RAIS) Ghana
- Regional Training Course on Workplace Monitoring Ghana
- Regional Workshop on SAT and RASIMS RER/9/096 Headquarters
- Regional Workshop on the Dissemination of the Chernobyl-related Information Russian Federation
- Regulatory System Tunisia
- Self-Assessment of National Regulatory Infrastructure for Safety Nigeria, Tunisia
- Training Course for New Regulators Cuba
- Training Course on Safe Transport of Radioactive Material China
- Training Course on Safety Assessment for Radioactive Waste Disposal Facilities Republic of Korea
- Training Course on the Prevention of Accidental Exposure in Radiotherapy Germany
- Training Course on the Regulatory Authority Information System (RAIS 3.0) Mozambique
- Workshop on Lessons Learnt from the Last Joint Convention Review Meeting China
- Workshop on Safety Assessment for Predisposal Radioactive Waste Management Facilities Thailand

Management of Radioactive Waste

- Approaches for the Implementation of Radioactive Waste Management Infrastructure United Arab Emirates
- Decommissioning USA
- Electronic Registry Ukraine
- Environmental and Safety Aspects in Radioactive Waste Management – Public Information Malaysia
- Geological Disposal in Sedimentary Environments Germany
- Laboratory Intercomparison Kazakhstan
- Medical Waste Morocco
- Nuclear Safety Argentina
- PGEC Radiation Protection and the Safety of Radiation Sources Belarus
- Radiation Protection Montenegro
- Radioactive Waste Disposal France
- Radioactive Waste Management Russian Federation
- Radioactive Waste Management Policy and Strategy Nigeria
- Regional Course on Waste Management and Remediation Technologies in NORM Syrian Arab Republic
- Regional Training Course on the Identification and Management of NORM Wastes Syrian Arab Republic
- Risk Assessment Modelling Kazakhstan
- Safe Management of Radioactive Waste from Medical Applications Turkey
- Surface Based and Underground Site Characterization Czech Republic, Switzerland

- Waste Inventory Systems South Africa

Nuclear Security

- Design Basis Threat Workshop/Seminar Finland, Mexico
- Foundations of Physical Protection of Nuclear Material and Facilities Ghana
- Information and Computer Security for Nuclear Organizations Managers Tunisia
- International Seminar on Nuclear Security for Managers and Decision Makers USA
- International Seminar on Preventing Illicit Trafficking in Nuclear and Other Radioactive Material Morocco
- International Training Course on Physical Protection of Nuclear Material and Nuclear Facilities USA
- International Training Course on Security in Transport of Radioactive Material Germany
- International Workshop on Introduction to Radiological Crime Scenes and Nuclear Forensics Canada
- ITDB Seminar 2010 Football World Cup (Major Public Events) South Africa
- National Educators Workshop for Front Line Officers on Radiation Detection Techniques Italy
- National Practical Training Course on Physical Protection Inspection for PNRA specialists Russian Federation
- National Practical Training Course on Power Plant Inspections for PNRA specialists Pakistan
- National Seminar on Combating Illicit Trafficking in Nuclear and Other Radioactive Material Albania
- National Training Course on Detection Systems for FLO Turkmenistan
- National Training Course on Physical Protection of Nuclear Material and Facilities South Africa
- National Training Course on Radiation Detection for Front Line Officers, 2010 World Cup South Africa
- National Training Course on Radiation Detection Techniques for Lebanese Front Line Officers Lebanon
- National Training Course on Response to Criminal or Unauthorized Acts Involving Radioactive Materials Uruguay
- National Training Course on On-the-job Training for Three to Six Personnel on the Backpack Monitoring System, Software Evaluation and Spectrum Analysis Qatar
- National Training Workshop on Nuclear Forensics: Basic Methods and Applications Singapore
- National Workshop on Introduction to Radiological Crime Scenes and Nuclear Forensics India
- National Workshop on Protection against Sabotage and Vital Area Identification China
- National Workshop on the Physical Protection of Research Reactors Indonesia
- Nuclear Security, Safety and Safeguards Ghana

- Physical Protection Czech Republic
- Physical Protection Inspections Russian Federation
- Pilot Training for 24 NMPC&A Students from MEPHI, TPU and SNUNEI Russian Federation
- Regional (AFRA) Training Course for Trainers on Radiation Detection Techniques Ghana
- Regional Course on Combating Illicit Trafficking Brazil
- Regional Course on Nuclear Security Culture China
- Regional Seminar on Nuclear Security, Safety and Safeguards Dominican Republic
- Regional Seminar on Nuclear Security, Safety and Safeguards for Senior Officials Kyrgyzstan
- Regional Seminar on Strengthening Nuclear and Radiological Security in Asian Countries Japan
- Regional Training Course on Combating Malicious Acts Involving Radioactive Materials at a Major Public Event Saudi Arabia
- Regional Training Course on Computer Security for Nuclear Security Practitioners Republic of Korea
- Regional Training Course on Foundations of Physical Protection of Nuclear Materials and Facilities Ghana
- Regional Training Course on Information and Computer Security for Nuclear Organization Managers Tunisia
- Regional Training Course on Information Security Management Brazil
- Regional Training Course on Nuclear Security Culture — C7-RAS-9.060-002 China
- Regional Training Course on Nuclear Security, Safety and Safeguards Ghana
- Regional Training Course on Physical Protection of Nuclear Material and Nuclear Facilities India, Netherlands
- Regional Training Course on Physical Protection of Nuclear Research Reactors Australia
- Regional Training Course on Physical Protection of Research Reactors Russian Federation
- Regional Training Course on Security of Radioactive Sources Brazil, Dominican Republic
- Regional Training Course on the Security in the Transport of Radioactive Material Australia, Peru, Senegal
- Regional Workshop on Combating Illicit Trafficking in Nuclear and Other Radioactive Materials C1-RAS/9/060-9001 Malaysia
- Regional Workshop on Implementing Legislation in Nuclear Security for Members of the League of Arab States Headquarters
- Regional Workshop on Nuclear Security Culture Kazakhstan
- Security of Radioactive Material during Transport Senegal
- Security of Radioactive Sources Brazil, United Republic of Tanzania
- Seminar on Illicit Nuclear Trafficking Information Management and Coordination Ghana
- Seminar on Illicit Trafficking Information Management Slovakia

- Training Course on Networking and Sustainability Lebanon
- Training Course on Sustainability Building for Trainers in Radiation Detection Techniques Ghana
- Workshop for Managers of Guard Forces at Nuclear Facilities Offered by the UK United Kingdom
- Workshop on DBT Moldova
- Workshop on Illicit Trafficking Information Management and Coordination Kazakhstan
- Workshop on Implementation of UN Security Council Resolution 1540 Costa Rica, Qatar
- Workshop on Nuclear Security for Pakistani Guards Managers United Kingdom
- Workshop on Preventive and Protective Measures against Insider Threats South Africa

Safeguards

- Course on ISSAS Saudi Arabia
- International Training Course on SSAC USA
- International Training Course on SSAC for States with SQPs USA
- National Training Course on SSAC Azerbaijan, Malaysia, Uzbekistan
- National Training Course on SSAC for Turkmenistan Turkmenistan
- Regional Training Course on SSAC Brazil, Japan
- Regional Workshop on Nuclear Material Accounting and Control at Facilities China

Nuclear Law and Legislative Assistance

- Basic Elements of Nuclear Law for Member States of Asia and the Pacific Region Headquarters
- International School of Nuclear Law France

Table A24. Relevant Agency web sites

- Public web site: <http://www.iaea.org/>

Nuclear Power

- Nuclear energy
<http://www.iaea.org/OurWork/ST/NE/index.html>
- Nuclear power
<http://www.iaea.org/NuclearPower/>
- Nuclear power technology development
<http://www.iaea.org/NuclearPower/Technology/>
- Nuclear power engineering
<http://www.iaea.org/NuclearPower/Engineering/>
- Nuclear energy knowledge resources
<http://www.iaea.org/inisnkm/nekr/index.html>
- INPRO
<http://www.iaea.org/INPRO/>
- Planning and economic studies
<http://www.iaea.org/OurWork/ST/NE/Pess/index.shtml>
- International Nuclear Information System and Nuclear Knowledge Management
<http://www.iaea.org/inisnkm/>
- Nuclear energy databases
<http://www.iaea.org/OurWork/ST/NE/databases.html>

Nuclear Fuel Cycle and Materials Technologies

- Nuclear fuel cycle and waste technology
<http://www.iaea.org/OurWork/ST/NE/NEFW/index.html>
- Integrated Nuclear Fuel Cycle Information System (iNFCIS)
<http://www-nfcis.iaea.org/>

Nuclear Science

- Portal for medical related nuclear data
<http://www-nds.iaea.org/medportal/>
- Research Reactor Database
<http://www.iaea.org/worldatom/rddb/>
- Information on ageing related operating experience from research reactors around the world (available to research reactor operators)
http://www.iaea.org/OurWork/ST/NE/NEFW/rrg_operation.html

Nuclear Applications

- Joint FAO/IAEA Programme on Nuclear Techniques in Food and Agriculture
<http://www-naweb.iaea.org/nafa/index.html>
- Physical and chemical sciences
<http://www-naweb.iaea.org/napc/ih/index.html>

Food and Agriculture

- Agency managed database for officially released mutant varieties
<http://mvgs.iaea.org/>

Human Health

- Programme of Action for Cancer Therapy (PACT)
<http://cancer.iaea.org/index.asp>
- Guidance and educational resources to Member States
<http://nucleus.iaea.org/apps/HHW/root/content/MedicalPhysics>
- Distance Assisted Training on-line (DATOL)
<http://nucleus.iaea.org/apps/HHW/root/content/Technologists/NuclearMedicine/Educationalresources/DistanceAssistedTrainingforNuclearMedicineTechnologists>
- Training materials for distance learning
<http://www-naweb.iaea/nahu/default.asp>

Water Resources

- Isotope measurements from non-Agency projects on rivers and groundwater (available to Member States)
<http://www.iaea.org/water>

Environment

- Reference material web site
<http://nucleus.iaea.org/rpst/index.htm>

Incident and Emergency Preparedness and Response

- Early Notification and Assistance Conventions (ENAC) web site and the Nuclear Events Web-based System
<http://www-news.iaea.org/news/>
- Incidents and emergencies
<http://www-ns.iaea.org/tech-areas/emergency/>

Radiation and Transport Safety

- Radiation Safety Information Management System (RASIMS)
<http://rasims.iaea.org>
- Radiation safety
<http://rpop.iaea.org/RPoP/RPoP/Content/index.htm>
- Radiation, transport and waste safety
<http://www-ns.iaea.org/home/rtws.asp>
- Nuclear installation safety
<http://www-ns.iaea.org/home/nis.htm>

Safeguards

- <http://www.iaea.org/OurWork/SV/Safeguards/index.html>

Management of Technical Cooperation for Development

- <http://www-tc.iaea.org/tcweb/default.asp>

Regional Sites

- Africa: <http://www-tc.iaea.org/tcweb/regionalsites/africa/default.asp>
- Europe: <http://www-tc.iaea.org/tcweb/regionalsites/europe/default.asp>
- Latin America: <http://www-tc.iaea.org/tcweb/regionalsites/latinamerica/default.asp>
- TCPride: <http://tcp.iaea.org/Default.asp>
- TC country profile: <http://tcp.iaea.org/?TCCountryProfile>

Standards, Guides and Conventions

- International standards, guides and codes
<http://www.iaea.org/Publications/Standards/index.html>
- International conventions and agreements
<http://www.iaea.org/Publications/Documents/Conventions/index.html>

Legal Assistance

- <http://ola.iaea.org/OLA/default.asp>

Table A25. Facilities under Agency safeguards or containing safeguarded material on 31 December 2009

State ^a	Facility abbreviated name	Location ^a
Power Reactors		
Argentina	Atucha I Nuclear Power Plant	Lima, Partido de Zárate
	Atucha II Nuclear Power Plant	Lima, Partido de Zárate
	Embalse Nuclear Power Plant	Embalse
Armenia	Armenian NPP	Metsamor
Belgium	BR3-Mol	Mol
	Doel 3 NPP	Doel
	Doel 4 NPP	Doel
	Elbel. Doel 1	Doel
	Elbel. Tih. 1	Tihange
	Tihange 2 NPP	Tihange
	Tihange 3 NPP	Tihange
Brazil	Admiral Alva. Alberto-(Angra 2)	Angra dos Reis
	Admiral Alva. Alberto-(Angra 3)	Angra dos Reis
	Alm. Alv. Alberto (Angra 1)	Angra dos Reis
	Pressurized Water Nuclear Inst.	Resende, Rio de Janeiro
Bulgaria	NPP Kozloduy 1–2	Kozloduy
	NPP Kozloduy 3–4	Kozloduy
	NPP Kozloduy 5–6	Kozloduy
Canada	Bruce A NGS	Tiverton, Ontario
	Bruce B NGS	Tiverton, Ontario
	Darlington NGS	Bowmanville, Ontario
	Gentilly II	Gentilly, Québec
	Pickering NGS	Pickering, Ontario
	Point Lepreau	Point Lepreau, New Brunswick
China	QSNPP	Hai Yan, Zhe Jiang
Czech Republic	Dukovany 1-2 NPP	Dukovany
	Dukovany 3-4 NPP	Dukovany
	Temelin NPP	Temelin-Elektrarna
Finland	Loviisa NPP	Loviisa
	TVO I	Olkiluoto
	TVO II	Olkiluoto
	TVO III	Olkiluoto
Germany	AVR	Juelich
	GKN	Neckarwestheim
	GKN II	Neckarwestheim
	HKG-THTR 300	Hamm
	KBR-Brokdorf	Brokdorf

State ^a	Facility abbreviated name	Location ^a
	KKB-Brunsbuettel	Brunsbuettel
	KKE_Emsland	Lingen (Ems)
	KKG-B	Gundremmingen
	KKG-C	Gundremmingen
	KKG-Grafenrheinfeld	Grafenrheinfeld
	KKI-2-Isar	Essenbach
	KKI-Isar-Ohu	Ohu Bei Landshut
	KKK-Kruemmel	Geesthacht
	KKP-1	Philippsburg
	KKP-2	Philippsburg
	KKS-Stade	Stade
	KKU-Unterweser	Unterweser
	KKW GR1. 1 & 2	Lubmin
	KKW GR2. 3 & 4	Lubmin
	KKW GR3. 5	Lubmin
	KKW Rheinsberg	Rheinsberg
	KW Muelheim-Kaerlich	Muelheim-Kaerlich
	KW-Biblis A	Biblis
	KW-Biblis B	Biblis
	KWG	Grohnde
	KWL-Lingen	Lingen
	KWO	Obrigheim
Hungary	Paks NPP I	Paks
	Paks NPP II	Paks
India	KKNPP	Kudankulam
	RAPS	Anushakh-Kota, Rajasthan
	RAPS 5 and 6	Rawatbhata, Rajasthan
	TAPS	Tarapur, Maharashtra
Iran, Islamic Republic of	Bushehr NPP	Bushehr, Halilem
	IR360	IR360
Italy	Centrale Di Trino	Trino Vercellese
	Centrale Latina	Borgo Sabotino
	Cirene (On Load)	Latina
	ENEL-Caorso	Caorso
	ENEL-Garigliano	Sessa Aurunca (Caserta)
Japan	Fuku-I-1	Futaba-Gun, Fukushima-Ken
	Fuku-I-2	Futaba-Gun, Fukushima-Ken
	Fuku-I-3	Futaba-Gun, Fukushima-Ken
	Fuku-I-4	Futaba-Gun, Fukushima-Ken

State ^a	Facility abbreviated name	Location ^a
	Fuku-I-5	Futaba-Gun, Fukushima-Ken
	Fuku-I-6	Futaba-Gun, Fukushima-Ken
	Fuku-N-1	Futaba-Gun, Fukushima-Ken
	Fuku-N-2	Futaba-Gun, Fukushima-Ken
	Fuku-N-3	Futaba-Gun, Fukushima-Ken
	Fuku-N-4	Futaba-Gun, Fukushima-Ken
	Genkai-1	Higashimatsuura-Gun, Saga-Ken
	Genkai-2	Higashimatsuura-Gun, Saga-Ken
	Genkai-3	Higashimatsuura-Gun, Saga-Ken
	Genkai-4	Higashimatsuura-Gun, Saga-Ken
	Hamaoka-1	Ogasa-Gun, Shizuoka-Ken
	Hamaoka-2	Ogasa-Gun, Shizuoka-Ken
	Hamaoka-3	Ogasa-Gun, Shizuoka-Ken
	Hamaoka-4	Ogasa-Gun, Shizuoka-Ken
	Hamaoka-5	Ogasa-Gun, Shizuoka-Ken
	Higashidoori-1	Shimokita-Gun, Aomori-Ken
	Ikata-1	Nishiuwa-Gun, Ehime-Ken
	Ikata-2	Nishiuwa-Gun, Ehime-Ken
	Ikata-3	Nishiuwa-Gun, Ehime-Ken
	Joyo	Higashi, Ibaraki-Ken
	Kashiwazaki-1	Kashiwazaki-Shi, Niigata-Ken
	Kashiwazaki-2	Kashiwazaki-Shi, Niigata-Ken
	Kashiwazaki-3	Kashiwazaki-Shi, Niigata-Ken
	Kashiwazaki-4	Kashiwazaki-Shi, Niigata-Ken
	Kashiwazaki-5	Kashiwazaki-Shi, Niigata-Ken
	Kashiwazaki-6	Kashiwazaki-Shi, Niigata-Ken
	Kashiwazaki-7	Kashiwazaki-Shi, Niigata-Ken
	Mihama-1	Mikata-Gun, Fukui-Ken
	Mihama-2	Mikata-Gun, Fukui-Ken
	Mihama-3	Mikata-Gun, Fukui-Ken
	Monju	Tsuruga-Shi, Fukui-Ken
	Ohi 1&2	Ohi-Gun, Fukui-Ken
	Ohi 3	Ohi-Gun, Fukui-Ken
	Ohi 4	Ohi-Gun, Fukui-Ken
	Ohma	Shimokita-Gun, Aomori-Prefect.
	Onagawa-1	Oshika-Gun, Miyagi-Ken
	Onagawa-2	Oshika-Gun, Miyagi-Ken
	Onagawa-3	Oshika-Gun, Miyagi-Ken
	Sendai-1	Sendai-Shi, Kagoshima-Ken

State ^a	Facility abbreviated name	Location ^a
	Sendai-2	Sendai-Shi, Kagoshima-Ken
	Shika-1	Hakui-Gun, Ishikawa-Ken
	Shika-2	Hakui-Gun, Ishikawa-Ken
	Shimane-1	Yatsuka-Gun, Shimane-Ken
	Shimane-2	Yatsuka-Gun, Shimane-Ken
	Shimane-3	Yatsuka-Gun, Shimane-Ken
	Takahama-1	Ohi-Gun, Fukui-Ken
	Takahama-2	Ohi-Gun, Fukui-Ken
	Takahama-3	Ohi-Gun, Fukui-Ken
	Takahama-4	Ohi-Gun, Fukui-Ken
	Tokai	Tokai-Mura, Ibaraki-Ken
	Tokai-2	Tokai-Mura, Ibaraki-Ken
	Tomari-1	Fururu-Gun, Hokkaido
	Tomari-2	Fururu-Gun, Hokkaido
	Tomari-3	Fururu-Gun, Hokkaido
	Tsuruga-1	Tsuruga-Shi, Fukui-Ken
	Tsuruga-2	Tsuruga-Shi, Fukui-Ken
Kazakhstan	BN-350	Aktau
Korea, Republic of	Kori-1	Pusan
	Kori-2	Pusan
	Kori-3	Pusan
	Kori-4	Pusan
	Shin Kori-1	Pusan
	Shin Kori-2	Pusan
	Shin Kori-3	Pusan
	Shin Kori-4	Pusan
	Shin Wolsong-1	Kyongju
	Shin Wolsong-2	Kyongju
	Ulchin-1	Ulchin
	Ulchin-2	Ulchin
	Ulchin-3	Ulchin
	Ulchin-4	Ulchin
	Ulchin-5	Ulchin
	Ulchin-6	Ulchin
	Wolsong-1	Kyongju
	Wolsong-2	Kyongju
	Wolsong-3	Kyongju
	Wolsong-4	Kyongju
	Younggwang-1	Younggwang

State ^a	Facility abbreviated name	Location ^a
	Younggwang-2	Younggwang
	Younggwang-3	Younggwang
	Younggwang-4	Younggwang
	Younggwang-5	Younggwang
	Younggwang-6	Younggwang
Lithuania	Ignalina NPP	Visaginas
Mexico	Central Laguna Verde Unit I	Muni. Al. Luc. Veracruz
	Central Laguna Verde Unit II	Muni. Al. Luc. Veracruz
Netherlands	EPZ. Borssele	Borssele
	N.V. GKN-Dodewaard	Dodewaard
Pakistan	CHASNUPP-2	Kundian, District Mianwali
	CHASNUPP-1	Kundian, District Mianwali
	KANUPP	Karachi
Philippines	BNPP	Morong, Bataan
Romania	Cernavoda-1	Cernavoda
	Cernavoda-3	Cernavoda
	Cernavoda-4	Cernavoda
	Cernavoda-U2	Cernavoda
Slovakia	Javys NPP A-1	Jaslovské Bohunice
	Javys NPP V-1	Jaslovské Bohunice
	Mochovce Units 1, 2 NPP	Mochovce
	Mochovce Units 3, 4 NPP	Mochovce
	V-2 NPP	Jaslovské Bohunice
Slovenia	Krško (Nek)	Krško
South Africa	Koeberg Unit I	Cape Town
	Koeberg Unit II	Cape Town
Spain	Asco 2	Asco
	Asco NPP 1	Asco
	Cn Cabrera	Almonacid de Zorita
	Cn Trillo 1	Trillo
	Cn Vandellos II	Vandellos
	Cn. Almaraz 1	Almaraz
	Cn. Almaraz 2	Almaraz
	He. Cofrentes	Cofrentes
	Nucl. S. M. Far.	Santa Maria de Garona
Sweden	Barsebaeck Unit 1	Loeddekoepinge
	Barsebaeck Unit 2	Loeddekoepinge
	Forsmark Unit 1	Oesthammar
	Forsmark Unit 2	Oesthammar

State ^a	Facility abbreviated name	Location ^a
	Forsmark Unit 3	Oesthammar
	Oskarshamn Unit 1	Oskarshamn
	Oskarshamn Unit 2	Oskarshamn
	Oskarshamn Unit 3	Oskarshamn
	Ringhals Unit 1	Ringhals
	Ringhals Unit 2	Ringhals
	Ringhals Unit 3	Vaeroebacka
	Ringhals Unit 4	Ringhals
Switzerland	KKB Beznau-II	Beznau Doettingen
	KKB-Ibeznau-I	Beznau Doettingen
	KKG-Goesgen	Goesgen-Daeniken
	KKL-Leibstadt	Leibstadt
	KKM Muehleberg	Muehleberg
Ukraine	Chernobyl NPP	Chernobyl
	Khmelnitski 1	Neteshin
	Khmelnitski 2	Neteshin
	Rovno 1 and 2	Kuznetsovsk
	Rovno 3	Kuznetsovsk
	Rovno 4	Kuznetsovsk
	Sth Ukraine 1	Yuzhnoukrainsk
	Sth Ukraine 2	Yuzhnoukrainsk
	Sth Ukraine 3	Yuzhnoukrainsk
	Zaporozhe 1	Energodar
	Zaporozhe 2	Energodar
	Zaporozhe 3	Energodar
	Zaporozhe 4	Energodar
	Zaporozhe 5	Energodar
	Zaporozhe 6	Energodar
Research Reactors and Critical Assemblies		
Algeria	Es Salam Reactor	Ain Oussera
	Nur Reactor	Draria, Wilaya de Tipaza
Argentina	Argentine Reactor 0 (RA-0)	Cordoba
	Argentine Reactor 1 (RA-1)	Centro Atomico Constituyentes
	Argentine Reactor 3 (RA-3)	Centro Atomico Ezeiza
	Argentine Reactor 4 (RA-4)	Rosario
	Argentine Reactor 6 (RA-6)	Centro Atomico Bariloche
	Argentine Reactor 8 (RA-8)	Pilcaniyeu
Australia	Hifar	Lucas Heights, Sutherland

State ^a	Facility abbreviated name	Location ^a
	Moata	Lucas Heights, Sutherland
	Opal	Lucas Heights, NSW
Austria	Atom. Oest. Univ.	Vienna
Bangladesh	Atomic Energ. Res. Estab.	Dhaka
Belarus	Sosny	Minsk
Belgium	BR1-Cen+C284	Mol
	BR2/BR02	Mol
	Cen-Venus	Mol
	Thetis-Rijkuniv.	Gent
Brazil	Argonauta Reactor-IEN	Rio de Janeiro
	IPEN/MB01 Critical Assem.	São Paulo
	IPR-R1 Reactor-CDTN	Belo Horizonte
	Research Reactor IEA-R1	São Paulo
Bulgaria	IRT-2000	Sofia
Canada	Biology, Chemistry, Physics	Chalk River, Ontario
	DIF	Chalk River, Ontario
	École Polytechnique	Montréal, Québec
	McMaster Nucl. Reactor	Hamilton, Ontario
	NRU Reactor	Chalk River, Ontario
	NRX Reactor	Chalk River, Ontario
	Slowpoke Alberta	Univ. of Alberta, Edmonton
	Slowpoke Dalhousie	Halifax, Nova Scotia
	Slowpoke Kingston	Kingston, Ontario
	Slowpoke Saskatchewan	Saskatoon, Saskatchewan
Chile	La Reina Reactor	Santiago
	Lo Aguirre Experimental React.	Santiago
China	HTR-10	Nankou, Beijing
Colombia	IAN-R1 R. Reactor	Bogotá
Czech Republic	LR-0	Řež
	LVR-15	Řež
	VR-1	Prague-Zbraslav
Democratic Rep. of the Congo	Triga II Reactor	Kinshasa
Denmark	Danish Decommissioning - DR3	Roskilde
Egypt	ET RR-1	Inshas
	MPR (Multi Purpose Reactor)	Aea Nuc Res C. near Inshas
Estonia	A.L.A.R.A.	Paldiski
Finland	FIR 1	Espoo
Georgia	Decom. IRT-M	Tbilisi
Germany	BER-II	Berlin

State ^a	Facility abbreviated name	Location ^a
	FH-Furtw.	Furtwangen
	FRM	Garching
	FRM-II	Garching
	GKSS FRG-1, FRG-2	Geesthacht
	KFA-FRJ2	Juelich
	Labor-ST	Zittau
	SUR100	Hannover
	SUR100 FHU	Ulm
	SUR100-RWTH	Aachen
	SUR100-TUB	Berlin
	SUR100-Univ. Stuttgart	Stuttgart
	Triga Mainz	Mainz
	TU-Dresden AKR	Dresden
	VKT. Research Reactor	Rosendorf
Ghana	GHARR-1	Legon-Accra
Greece	GRR-1	Attikis
Hungary	Budapest Res. Reactor	Budapest
	Training Reactor	Budapest
Indonesia	P3TKN	Bandung
	PPNY	Yogyakarta
	RSG-Gas	Serpong
Iran, Islamic Republic of	HWZPR	Esfahan
	IR-40	Arak
	LWSCR	Esfahan
	MNSR	Esfahan
	Tehran Research Reactor (TRR)	Tehran
Israel	Israel R. R.-1(IRR-1)	Soreq
Italy	AGN-201	Palermo
	Camen-RTS-1	San Piero a Grado
	CEC-Complexe-Essor	Ispra
	CNEN-RB-3	Montecuccolino
	RB-1	Montecuccolino
	Tapiro-Casaccia	Santa Maria di Galeria
	Triga-RC1	Santa Maria di Galeria
	University of Pavia	Pavia
Jamaica	CNS	Kingston
Japan	DCA	Oarai-Machi, Ibaraki-Ken
	FCA	Tokai-Mura, Ibaraki-Ken
	HTR	Kawasaki-Shi, Kanagawa-Ken

State ^a	Facility abbreviated name	Location ^a
	HTTR	Higashi, Ibaraki-Ken
	JMTR	Higashi, Ibaraki-Ken
	JMTRC	Higashi-Gun, Ibaraki-Ken
	JRR-2	Tokai-Mura, Ibaraki-Ken
	JRR-3	Tokai-Mura, Ibaraki-Ken
	JRR-4	Tokai-Mura, Ibaraki-Ken
	KINKI	Higashiosaka-Shi, Osaka-Fu
	KUCA	Osaka
	KUR	Sennan-Gun, Osaka
	Musashi Reactor	Kawasaki-Shi, Kanagawa-Ken
	NCA	Kawasaki-Shi
	NSRR	Tokai-Mura, Ibaraki-Ken
	Rikkyo	Nagasaka, Kanagawa-Ken
	TCA	Tokai-Mura, Ibaraki-Ken
	TODAI	Tokai-Mura, Ibaraki-Ken
	TTR	Kawasaki-Shi, Kanagawa-Ken
	VHTRC	Tokai-Mura, Ibaraki-Ken
Kazakhstan	Kurchatov Test Reactor	Kurchatov
	WWR-K	Almaty
Korea, Republic of	Hanaro	Taejon
	Kyung Hee	Suwoon
Latvia	IRT	Salaspils
Libyan Arab Jamahiriya	IRT-Tajura	Tajura
Malaysia	Puspati	Bangi, Selangor
Mexico	Triga Mark III	Ocoyoacac
Morocco	MA-R1	Rabat, Agdal
Netherlands	BARN	Wageningen
	HFR-Petten	Petten
	IRI. HOR	Delft
	LFR-Petten	Petten
Nigeria	NIRR-1	Ahmadu Bello University, Zaria
Norway	HBWR	Halden
	JEEP-II	Kjeller
Pakistan	PARR-1	Rawalpindi
	PARR-2	Rawalpindi
Peru	CNIP RP-10 R. Reactor	Lima
	RP-0 R. Reactor	Lima
Philippines	PRR-1	Quezon City, Diliman
Poland	Anna and Agata	Otwock Swierk

State ^a	Facility abbreviated name	Location ^a
	Maria	Otwock-Swierk
Portugal	RPI	Sacavém
Romania	Material Testing Facility	Pitesti-Colibasi
	Nat. Inst. R & D	Magurele
Serbia	RA-RB	Vinča
Slovenia	Triga II Reactor	Ljubljana
South Africa	Safari-I Research Reactor	Pelindaba
Sweden	Studsvik-RR	Studsvik
Switzerland	AGN 211-P	Basel
	Crocus	Lausanne
	Proteus	Wuerenlingen
Syrian Arab Republic	MNSR	Damascus
Tajikistan	Argus Research Reactor	Physical-Tech. Inst., Dushanbe
Thailand	ONRC	Ongkharak, Nakon Nayon
	TRR-1	Bangkok
Turkey	Cekmece Nucl. Res. and Training Centre	Istanbul
	ITU-TRR-Triga Mark II	Istanbul
Ukraine	IR-100 Res. Reactor	Sevastopol
	WWR-M Res. Reactor	Kiev
Uzbekistan	IIN-3M	Tashkent
	WWR-SM	Ulugbek
Venezuela	RV-1 IVIC R. Reactor	Altos de Pipe
Vietnam	Da Lat	Da Lat, Lam Dong
Conversion Plants		
Algeria	Pilot Uranium Conversion Plant	Draria Nuclear Research Center
Argentina	UF ₆ Production Plant	Pilcaniyeu
	UO ₂ Conversion Plant	Cordoba
Brazil	UOC to UF ₆ Conversion	Iperó, São Paulo
Canada	Blind River	Blind River, Ontario
	Port Hope	Port Hope, Ontario
Chile	Lab. Experiment. De Conversion	Santiago
Iran, Islamic Republic of	UCF	Esfahan
	Uranium Chemistry Laboratory	Esfahan Nuclear Tech. Center
Japan	JCO	Tokai-Mura, Ibaraki-Ken
	Ningyo R & D	Tomata-Gun, Okayama-Ken
	PCDF	Tokai-Mura, Ibaraki-Ken
Korea, Republic of	DUF4 Conv. Pl.	Taejon
Mexico	Fuel Fabrication Pilot Plant	Salazar

State ^a	Facility abbreviated name	Location ^a
Romania	UO ₂ Powder Processing Plant	Feldiora
South Africa	Conversion Plant (U Plant)	Pelindaba
	HEU/LEU Conversion Plant	Pelindaba
Sweden	RMA	Stenstorp
Fuel Fabrication Plants		
Algeria	UDEEC	Draria Nuclear Site
Argentina	Exp. Pl. Fuel Mat. & Powder Met.	Centro Atómico Constituyentes
	Fuel. Fab. Plant - Fecn	Centro Atómico Ezeiza
	Res. Reac. Fuel Elem. Fab. Plant	Centro Atómico Constituyentes
	Res. Reac. Fuel Fab. Plant	Centro Atómico Ezeiza
Belgium	FBFC Int.	Dessel
	FBFC Int.	Dessel
	N.V. BN	Dessel
Brazil	Fuel Fabrication Plant-Fec	Resende
Canada	Fuel Eng. Met. Che. Op.	Chalk River, Ontario
	Fuel Fabrication Facility	Chalk River, Ontario
	G. E. C Inc., Toronto	Toronto, Ontario
	G. E. C. Inc., Peterborough	Peterborough, Ontario
	Zircatec, Port Hope	Port Hope, Ontario
Chile	Unidad De Metalur. Fisica (UMF)	Santiago, Chile
Egypt	FMPP (Fuel Manuf. Pilot Plant)	Inshas
	R&D-NFL	Inshas Nucl. Res. Center, Cairo
France	Melox. Marcoule	Chusclan
Germany	Adv. Nuclear Fuels	Lingen
	Siemens Mox II	Hanau
India	AFFF	Tarapur-Bombay
	NFC	Hyderabad
	NFC-NV	Hyderabad
Indonesia	IEBE	Serpong
	IPEBRR	Serpong
Iran, Islamic Republic of	FMP	Isfahan
	Fuel Fabrication Laboratory	Esfahan Nuc. Tech. Cntr (ENTC)
Italy	FN-Bosco Marengo	Bosco Marengo
Japan	GNF-J	Yokosuka-Shi, Kanagawa-Ken
	J-MOX	Oaza Obuchi, Rokkasho-Mura
	MNF	Tokai-Mura, Ibaraki-Ken
	NFI Kumatori-1	Sennan-Gun, Osaka
	NFI Tokai-1	Tokai-Mura, Ibaraki-Ken

State ^a	Facility abbreviated name	Location ^a
	NFI Tokai-2	Tokai-Mura, Ibaraki-Ken
	PFPP	Tokai-Mura, Ibaraki-Ken
	PPFF	Tokai-Mura, Ibaraki-Ken
Kazakhstan	Ulbinski Metallurgical Plant	Ust-Kamenogorsk
Korea, Republic of	KNFFP	Taejon
Romania	NFP	Colibasi - Pitesti
South Africa	LEU Fuel Fabrication Plant	Pelindaba
	MTR Fuel Fabrication Plant	Pelindaba
Spain	Enusa Fab. Juz.	Juzbado
Sweden	Westinghouse Electric	Vaesteras/Finnslaetten
Turkey	Nuclear Fuel Pilot Plant	Istanbul
Reprocessing Plants		
Egypt	Hydrometallurgy Unit	Inshas, Cairo
France	Cogema UP2 and UP3	La Hague
Germany	WAK/VEK	Eggenstein-Leopoldshafen
India	PREFRE	Tarapur Bombay
Iran, Islamic Republic of	Mix Facility	Tehran
Italy	CNEN-Eurex	Saluggia
	ITREC	Rotondella
Japan	CPF	Tokai-Mura, Ibaraki-Ken
	RETF	Tokai-Mura, Ibaraki-Ken
	RRF	Ibaraki-Ken
	RRP	Kamikita-Gun, Aomori-Ken
	SCF	Tokai-Mura, Ibaraki-Ken
	TRP	Tokai-Mura, Ibaraki-Ken
Enrichment Plants		
Argentina	Uranium Enrichment Plant	Pilcaniyeu
Australia	Silex	
Brazil	Isotopic Enrich. Lab. (LEI)	Iperó, São Paulo
	Laser Spectroscop. Lab. (Ar/Las)	São José dos Campos
	U-235 Centrifuge Enrich. Plant	Resende
	Uran. Enrich. Pilot Plant (USIDE)	Iperó, São Paulo
China	Shaanxi	Han Zhang, Shaanxi Province
France	Georges Besse II	Pierrelatte
Germany	UTA 1 and UTA 2	Gronau
Iran, Islamic Republic of	FEP	Natanz
	FFEP	Qom City

State ^a	Facility abbreviated name	Location ^a
	PFEP	Natanz
Japan	CTF	Kitakami-Gun, Aomori-Ken
	NEP	Tomata-Gun, Okayama-Ken
	REP	Kamikita-Gun, Aomori-Ken
Netherlands	Urenco Nederland	Almelo
United Kingdom	Urenco E22, E23, A3	Capenhurst
Separate Storage Facilities		
Argentina	Cent. St. Irr. Sp. Fiss. M. (DCMFEI)	Centro Atómico Ezeiza
	Cent. Store Sp. Fiss. Mat. (DCMFE)	Centro Atómico Constituyentes
	Nuclear Material Storage	Centro Atómico Constituyentes
	Storage Bunker	Centro Atómico Ezeiza
Armenia	SSFS	Metsamor
Australia	Vault Storage	Lucas Heights, Sutherland
Belgium	Belgoprocess	Dessel
	Belgoprocess	Dessel
	Elbel. DL. DS	Beveren
	FBFC Internat. S.A.	Dessel
	Wet Store	Tihange
Brazil	Aramar Store	Iperó
Bulgaria	DSFSF KNPP 2	Kozloduy
	SFSF Kozloduy 1	Kozloduy
Canada	Acel Research	Pinawa, Manitoba
	DP Dry Storage	Tiverton, Ontario
	DWMF	Darlington, Ontario
	FPSF	Chalk River Laboratories
	Gentilly I	Gentilly, Québec
	NMSF	Chalk River, Ontario
	Port Hope LLRW Storage	Port Hope, Ontario
	PUFDSF	Pickering, Ontario
	Spent Fuel Canister Storage	Chalk River, Ontario
	Spent Fuel Storage	Chalk River, Ontario
	Spent Fuel Storage	Chalk River, Ontario
	The Waste Storage System	Chalk River, Ontario
	WUFDSF	Tiverton, Ontario, Nog 2To, Cn
Czech Republic	ISFS Dukovany	Dukovany
	Radioactive Waste Rep. Richard	Litomerice
	VAO	Řež
Denmark	Danish Decommiss.– Riso Store	Roskilde

State ^a	Facility abbreviated name	Location ^a
	Danish Decommissioning – Waste	Roskilde
Finland	Tvo-Kpa-Store	Olkiluoto
Germany	Adv. Nucl. Fuels-UF ₆ Lager	Lingen
	BE-ZL-Gundremmingen	Gundremmingen
	BZA. Ahaus	Ahaus
	BZL Biblis	Biblis
	Energiewerke Nord Gmbh	Lubmin
	EWN. ZLN	Lubmin
	GKN-ZL	Neckarwestheim
	HDB	Eggenstein-Leopoldshafen
	Kernmateriallager 87	Rosendorf
	KFA-AVR. BL	Juelich
	KFA-AVR	Juelich
	KFK-FR-2	Eggenstein-Leopoldshafen
	KKG-Bella	Grafenrheinfeld
	KKI-Bella	Essenbach
	NCS-Lagerhalle	Hanau
	PTB-Spaltstofflager	Hanau
	SBZ	Brunsbuettel
	SZL	Lingen
	SZL-Kruemmel	Geesthacht
	Transportbehaelterlager (TBL-G)	Gorleben
	TBH (B) 87.2	Rosendorf
	TNH Lager Leese	Landesbergen-Leese
	ZL-KBR	Brokdorf
	ZL-KKU	Stadland
	ZL-KWG	Emmerthal
	ZL-Philippsburg	Philippsburg
Hungary	Cent. Isotope Store	Budapest
	MVDS	Paks
India	TAPS AFR	Tarapur, Maharashtra
Indonesia	TC and ISFSF	Serpong
Iran, Islamic Republic of	KWS	Karaj
Iraq	Tuwaitha Location C	Tuwaitha
Italy	Dep. Avogadro	Torino
	Essor Nuclear Plant	Ispra
	JRC-Essor Storage	Ispra
	Nucleco S.P.A.	Roma
	Res. Centre-Ispra	Ispra

State ^a	Facility abbreviated name	Location ^a
Japan	Fugen	Tsuruga-Shi, Fukui-Ken
	Fuku-I-CSFS	Futaba-Gun, Fukushima-Ken
	JAERI Mutsu	Mutsu-Shi, Aomori-Ken
	KUFFS	Sennan-Gun, Osaka
	NFI Kumatori-2	Sennan-Gun, Osaka
Kazakhstan	Baikal-1 DSFS	Kurchatov
	BN-350 Temp. Storage	Aktau
	Ulbinski Thorium Storage	Ust-Kamenogorsk
Korea, Republic of	Acrylonitrile Plant	Ulsan
	NMSF	Kaeri site in Taejon
	SFS	Kaeri
	Uranium Residue Storage Fac.	Kaeri-Daejeon
Lithuania	SNFS-1	Visaginas
	SNFS-2	Visaginas
Netherlands	Covra	Vlissingen-Oost
	Habog	Vlissingen
Pakistan	Hawks Bay Depot	Karachi
Poland	Zuop	Swierk
Portugal	Inst. de Armazenagem	Sacavem
Romania	Isfs Cernavoda NPP	Cernavoda
Slovakia	Javys AFRS	Jaslovské Bohunice
South Africa	Bulk Storage Facility	Pelindaba
	E-Building	Valindaba
	HEU Storage Vault	Pelindaba
	Koeberg Castor Storage Fac.	Cape Town
	Thabana Pipe Store	Pelindaba
	Waste Storage Facility	Pelindaba
	Y-Plant Storage Facility	Pelindaba
Spain	Z-Plant	Pelindaba
	ATI	Almonacid de Zorita
Sweden	CN Trillo	Trillo
	Clab Store	Oskarshamn
Switzerland	Saphir	Paul Sherrer Institut
	Zwibez Kernkraftwerk Beznau	Kernkraftwerk Beznau
	Zwilag	Wuerenlingen Aargau
USA	KAMS Storage	Savannah River Site
	Y-12 Plant	Oak Ridge, Tennessee
Ukraine	Chernobyl NPP-SFS	Chernobyl

State ^a	Facility abbreviated name	Location ^a
	Chernobyl SNFSF-2	Chernobyl
	Khmelnitski FF Storage	Neteshin
	Rovno FF Storage	Kuznetsovsk
	Sth. Ukraine FF Storage	Yuzhnoukrainsk
	Zaporozhe FF Storage	Energodar
	Zaporozhe SFS	Energodar
United Kingdom	SMP Export	Sellafield
	SNM Store 9	Sellafield
	Thorp Product Store	Sellafield
Other Facilities		
Algeria	AURES I	Birine Nucl. Site (Ain Oussara)
Argentina	Alpha Laboratory	Centro Atómico Constituyentes
	Enriched Uranium Recovery Lab.	Centro Atómico Ezeiza
	Fission Products Division	Centro Atómico Ezeiza
	Lapep	Centro Atómico Ezeiza
	Triple Altura Laboratory (LTA)	Centro Atómico Ezeiza
	Uranium Powder Fab. Plant	Centro Atómico Constituyentes
Australia	R&D Labs	Lucas Heights, Sutherland
Belgium	CEN-Lab-Pu	Mol
	CEN-Waste	Dessel
	I. R. E.	Fleurus
	IRMM .Geel	Geel
	SCK-CEN Lab.	Mol
Brazil	(Ladesi)-Copesp	São Paulo
	Fuel Development & Tech. Fac.	São Paulo
	Labgene	Iperó
	Nuclear Fuel and Instr. Develop. Lab.	São Paulo
	Nuclear Mat. Lab.-Labmat	Iperó
	Reprocess. Proj. (IPEN-CNEN/SP)	São Paulo
Czech Republic	Central Anal. Lab.	Řež
	UJP	Prague
Denmark	Danish Decommiss. – Hotcell	Roskilde
Egypt	Molybdenum Production Unit	Inshas
	NCB	Inshas
Georgia	Razmnozhitel-1	Tbilisi
	Sukhumi Inst.	Sukhumi
Germany	Desy-Hamburg	Hamburg
	Inst. Kernchemie	Mainz

State ^a	Facility abbreviated name	Location ^a
	KFA-HZ	Juelich
	KFA-Lab. Juelich	Juelich
	KFK-Heisse Zellen	Eggenstein-Leopoldshafen
	PKA Gorleben	Gorleben
	Transuran	Eggenstein-Leopoldshafen
	VKT. Tec. Ztr	Rosendorf
Indonesia	RMI	Serpong
Iran, Islamic Republic of	JHL	Tehran Nucl. Res. Center
Italy	CNEN-ISTEC	Santa Maria di Galeria
	Impianto Plutonio	Santa Maria di Galeria
	OPEC 2-Cas	Santa Maria di Galeria
Japan	FMF	Higashi, Ibaraki-Ken
	IRAF	Higashi-Gun, Ibaraki-Ken
	JAERI Oarai R&D	Higashi, Ibaraki-Ken
	JAERI Tokai	Tokai-Mura, Ibaraki-Ken
	JNC Oarai R&D	Higashi, Ibaraki-Ken
	JNC Tokai R&D	Tokai-Mura, Ibaraki-Ken
	Kumatori	Sennan-Gun, Osaka
	Mitsui Iwakuni-Ohtake	Kuga-Gun, Yamaguchi-Ken
	Mitsui Osaka	Takai-Shi, Osaka-Fu
	NDC Fuel Hot Lab	Tokai-Mura, Ibaraki-Ken
	NERL	Tokai-Mura, Ibaraki-Ken
	NFD	Higashi, Ibaraki-Ken
	NRF	Tsukuba-Shi, Ibaraki-Ken
	Showa	Kawasaki-Shi, Kanagawa-Ken
	Sumitomo-Chiba	Sodegaura-Shi, Chiba-Ken
	UML	Higashi, Ibaraki-Ken
Korea, Republic of	ACPF	KAERI, Daejeon
	DFDF	Taejeon
	HFFL	Taejeon
	IMEF	Taejeon
	KAERI R&D Facility	Taejeon
	PIEF	Taejeon
	PRIDE	Kaeri-Daejeon
Libyan Arab Jamahiriya	Tajura Uranium R&D Facility	Tajura
Netherlands	JGL	Petten
Norway	Research Laboratories	Kjeller
South Africa	Decontam. and Waste Recovery Pl.	Pelindaba
	Hot Cell Complex	Pelindaba

State ^a	Facility abbreviated name	Location ^a
	NU and DU Metals Plant	Pelindaba
Spain	C.A. El Cabril	El Cabril
Switzerland	CERN	Switzerland
	E.I.R.	Wuerenlingen
Ukraine	Chernobyl Conditioning	Chernobyl
	Chernobyl Unit 4 Shelter	Chernobyl
	KHFTI	Kharkov
	Sevastopol Subcritical Assy.	Sevastopol

^a An entry in this column does not imply the expression of any opinion whatsoever on the part of the Agency concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.

Note: The Agency was also applying safeguards at facilities in Taiwan, China.

Note: Additionally under Agency safeguards were 455 locations outside facilities (LOFs) in 65 States and in Taiwan, China.