

THE ANNUAL REPORT FOR 2016

Additional Annex Information

Table A27. Coordinated research projects initiated in 2016

Nuclear Power

• Organizational Cultural Basis for Successful Performance in Nuclear Power Plants

Nuclear Fuel Cycle and Materials Technology

- Management of Severely Damaged Spent Fuel and Corium
- Spent Fuel Performance Assessment and Research Phase IV
- Ageing Management Programmes for Dry Storage Systems

Capacity Building and Nuclear Knowledge for Sustainable Energy Development

Assessments of the Potential Role of Nuclear Energy in National Climate Change Mitigation Strategies

Nuclear Science

- Updating Photonuclear Data Library and Generating a Reference for Photon Strength Functions
- Accelerator-driven System (ADS) Applications and Use of Low-enriched Uranium in ADSs
- Ion Beam Induced Spatio-temporal Structural Evolution of Materials: Accelerators for a New Technology
 Era
- Accelerator Simulation and Theoretical Modelling of Radiation Effects SMoRE-II

Food and Agriculture

- Nuclear Techniques for a Better Understanding of the Impact of Climate Change on Soil Erosion in Upland Agro-ecosystems
- Application of Nuclear and Genomic Tools to Enable for the Selection of Animals with Enhanced Productivity Traits
- Quantification of Intake and Diet Selection of Ruminants Grazing Heterogeneous Pasture Using Compound Specific Stable Isotopes
- Early Detection of Transboundary Animal Diseases (TADs) to Facilitate Prevention and Control through a Veterinary Diagnostic Laboratory Network (VETLAB Network)
- Improved Field Performance of Sterile Male Lepidoptera to Ensure Success in SIT Programmes
- Mutation Breeding for Resistance to Striga Parasitic Weeds in Cereals for Food Security

Water Resources

- Isotopes to Study Nitrogen Pollution and Eutrophication of Rivers and Lakes
- Use of Isotope Hydrology to Characterize Groundwater Systems in the Vicinity of Nuclear Power Plants
- Use of Long-lived Radionuclides for Dating Very Old Groundwaters

Environment

- Radioanalytical and Isotopic Studies of Climate Trends and Variability in Marine Paleo-records
- Study of Temporal Trends of Pollution in Selected Coastal Areas by the Application of Isotopic and Nuclear Tools

Radioisotope Production and Radiation Technology

- Therapeutic Radiopharmaceuticals Labelled with New Emerging Radionuclides (⁶⁷Cu, ¹⁸⁶Re, ⁴⁷Sc)
- Copper-64 Radiopharmaceuticals for Theranostic Applications
- Development of Radiometric Methods and Modelling for Measurement of Sediment Transport and Dispersion of Particles and Pollutants from Outfalls

Nuclear Security

• Enhancing Computer Security Incident Analysis at Nuclear Facilities

Table A28. Coordinated research projects completed in 2016

Nuclear Power

- Review and Benchmark of Calculation Methods on Piping Wall Thinning due to Erosion-corrosion in Nuclear Power Plants
- Improved Understanding of the Irradiation Creep Behaviour of Nuclear Graphite
- Benchmark Analysis of an EBR-II Shutdown Heat Removal Test
- Examining the Techno-economics of Nuclear Hydrogen Production and Benchmark Analysis of the IAEA HEEP Software

Nuclear Fuel Cycle and Materials Technology

• Near Term and Promising Long Term Options for Deployment of Thorium Based Nuclear Energy

Capacity Building and Nuclear Knowledge for Sustainable Energy Development

- Assessing Interdependencies between Energy, Water, Land-use and Climate Change
- Techno-economic Evaluation of Options for Adapting Nuclear and other Energy Infrastructure to Long-term Climate Change and Extreme Weather

Nuclear Science

- Applications of Synchrotron Radiation for Environmental Sciences and Materials Research for Development of Environmentally Friendly Resources
- Utilization of Ion Accelerators for Studying and Modelling of Radiation Induced Defects in Semiconductors and Insulators
- Utilisation of Accelerator-based Real-time Methods in the Investigation of Materials with High Technological Importance
- Improvement of Portable Instruments and Analytical Techniques for in Situ Applications
- Investigations on Materials under High Repetition and Intense Fusion Pulses
- Utilization of the Network of Small Magnetic Confinement Fusion Devices for Mainstream Fusion Research

Food and Agriculture

- Genetic Variation on the Control of Resistance to Infectious Diseases in Small Ruminants for Improving Animal Productivity
- The Use of Enzymes and Nuclear Technologies to Improve the Utilization of Fibrous Feeds and Reduce Greenhouse Gas Emission from Livestock
- The Use of Irradiated Vaccines in the Control of Infectious Transboundary Diseases of Livestock
- Climate Proofing of Food Crops: Genetic Improvement for Adaptation to High Temperatures in Drought Prone Areas and Beyond
- Enhancing the Efficiency of Induced Mutagenesis through an Integrated Biotechnology Pipeline

Human Health

- Nuclear Techniques to Assess Body Composition in Children and Adolescents as a Risk Factor in the Development of Chronic Diseases
- Clinical use of Myocardial SPECT Imaging and CT Angiography in Coronary Artery Disease
- Strengthening of "Biological dosimetry" in IAEA Member States: Improvement of Current Techniques and Intensification of Collaboration and Networking Among the Different Institutes

Water Resources

- The Use of Environmental Isotopes to Assess Sustainability of Intensively Exploited Aquifer Systems
- Environmental Isotope and Age Dating Methods to Assess Water Quality in Rivers Affected by Shallow Groundwater Discharges

Radioisotope Production and Radiation Technology

- Development and Preclinical Evaluations of Therapeutic Radiopharmaceuticals Based on Lu-177 and Y-90 Labeled Monoclonal Antibodies and Peptides
- Accelerator-based Alternatives to Non-HEU Production of Mo-99/Tc-99m
- Radiometric Methods for Measuring and Modelling Multiphase Systems Towards Process Management
- Radiation Treatment of Wastewater for Reuse with Particular Focus on Wastewaters Containing Organic Pollutants

Management of Radioactive Waste

 Processing Technologies for High Level Waste, Formulation of Matrices and Characterisation of Waste Forms

Nuclear Security

• Identification of High Confidence Nuclear Forensics Signatures for the Development of National Nuclear Forensics Libraries

Table A29. Publications issued in 2016

Nuclear Power

- Ageing Management of Concrete Structures in Nuclear Power Plants IAEA Nuclear Energy Series
- Application of Field Programmable Gate Arrays in Instrumentation and Control Systems of Nuclear Power Plants — IAEA Nuclear Energy Series
- Building a National Position for a New Nuclear Power Programme IAEA Nuclear Energy Series
- Climate Change and Nuclear Power 2016 Non-serial Publication
- Commissioning for Nuclear Power Plants IAEA Safety Standards Series (in Russian)
- Country Nuclear Power Profiles Non-serial Publication
- Design of Electrical Power Systems for Nuclear Power Plants IAEA Safety Standards Series
- Design of Instrumentation and Control Systems for Nuclear Power Plants IAEA Safety Standards Series
- Energy, Electricity and Nuclear Power Estimates for the Period up to 2050 Reference Data Series
- Evaluation of the Status of National Nuclear Infrastructure Development IAEA Nuclear Energy Series
- Guía para la Elaboración de un Programa de Creación y Desarrollo de Competencias de Reguladores de Reactores Nucleares — IAEA TECDOC (in Spanish)
- Guidelines on Devising a Programme for Competence Acquisition and Development among Nuclear Regulators — IAEA TECDOC
- Impacts of Electricity Market Reforms on the Choice of Nuclear and Other Generation Technologies IAEA TECDOC
- Industrial Involvement to Support a National Nuclear Power Programme IAEA Nuclear Energy Series
- INPRO Methodology for Sustainability Assessment of Nuclear Energy Systems: Environmental Impact of Stressors — IAEA Nuclear Energy Series
- Licensing the First Nuclear Power Plant —INSAG Series (in Russian)
- Modelling Nuclear Energy Systems with MESSAGE: A User's Guide IAEA Nuclear Energy Series
- Nuclear Power and Sustainable Development Non-serial Publication
- Nuclear Power Plant Outage Optimization Strategy: 2016 Edition IAEA TECDOC
- Nuclear Power Reactors in the World Reference Data Series
- Operating Experience with Nuclear Power Stations in Member States in 2015 Operating Experience with Nuclear Power Stations in Member States (CD-ROM)
- Preparing and Conducting Review Missions of Instrumentation and Control Systems in Nuclear Power Plants — IAEA TECDOC
- Procurement Engineering and Supply Chain Guidelines in Support of Operation and Maintenance of Nuclear Facilities IAEA Nuclear Energy Series

Nuclear Fuel Cycle and Materials Technology

- Accident Tolerant Fuel Concepts for Light Water Reactors IAEA TECDOC
- Decommissioning of Facilities IAEA Safety Standards Series (in Arabic)
- High Burnup Fuel: Implications and Operational Experience IAEA TECDOC (CD-ROM)
- In Situ Leach Uranium Mining: An Overview of Operations IAEA Nuclear Energy Series
- Managing the Unexpected in Decommissioning IAEA Nuclear Energy Series
- Uranium 2016: Production and Demand Joint IAEA-OECD/NEA publication

Capacity Building and Nuclear Knowledge for Sustainable Energy Development

- Application of the Management System for Facilities and Activities IAEA Safety Standards Series (in Spanish)
- Development of Knowledge Portals for Nuclear Power Plants IAEA Nuclear Energy Series (in Russian)
- Knowledge Management and Its Implementation in Nuclear Organizations IAEA Nuclear Energy Series
- Knowledge Management for Nuclear Research and Development Organizations IAEA TECDOC (in Russian)
- Leadership and Management for Safety IAEA Safety Standards Series
- Leadership and Management for Safety IAEA Safety Standards Series (in Arabic)

- Leadership and Management for Safety IAEA Safety Standards Series (in Chinese)
- Leadership and Management for Safety IAEA Safety Standards Series (in French)
- Sustainable Electricity Supply Scenarios for West Africa IAEA TECDOC

Nuclear Science

- History, Development and Future of TRIGA Research Reactors Technical Reports Series
- Nuclear Data Newsletter, Issue No. 61, July 2016
- The Radiation Chemistry of Polysaccharides Non-serial Publication
- Radiation Technology for Cleaner Products and Processes IAEA TECDOC
- Trends of Synchrotron Radiation Applications in Cultural Heritage, Forensics and Materials Science IAEA TECDOC
- Utilization of a Network of Small Magnetic Confinement Fusion Devices for Mainstream Fusion Research — IAEA TECDOC

Environment

- Advancing Implementation of Decommissioning and Environmental Remediation Programmes IAEA Nuclear Energy Series
- Certification of Trace Elements and Methyl Mercury Mass Fractions in IAEA-456 Marine Sediment Samples — IAEA Analytical Quality in Nuclear Applications Series
- Certification of Trace Elements and Methyl Mercury Mass Fractions in IAEA-461 Clam (Gafrarium tumidum) Sample IAEA Analytical Quality in Nuclear Applications Series
- Criteria for Radionuclide Activity Concentrations for Food and Drinking Water IAEA TECDOC
- Environment Laboratories Newsletter, Vol. 2, No. 2, July–December 2015
- Supporting Sampling and Sample Preparation Tools for Isotope and Nuclear Analysis IAEA TECDOC
- Uso de Nuevas Tecnologias para el Diseño, Modernizacion y Automatizacion de Sistemas y Procesos Relacionados con Aplicaciones Nucleares IAEA TECDOC (in Spanish)
- Worldwide Interlaboratory Comparison on the Determination of Trace Elements in the IAEA-457 Marine Sediment Sample — IAEA Analytical Quality in Nuclear Applications Series

Food and Agriculture

- Animal Production and Health Newsletter, Nos 63 and 64, January and July 2016
- Development of Radiometric and Allied Analytical Methods and Strategies to Strengthen National Residue Control Programmes for Antibiotic and Anthelmintic Veterinary Drug Residues — IAEA TECDOC
- Food and Environmental Protection Newsletter, Vol. 19, Nos 1 and 2, January and July 2016
- Insect Pest Control Newsletter, Nos 86 and 87, January and July 2016
- Integrated Soil, Water and Nutrient Management for Sustainable Rice-Wheat Cropping Systems in Asia
 IAEA TECDOC
- Manual of Standard Operating Procedures for Veterinary Drug Residue Analysis Training Course Series
- Plant Breeding and Genetics Newsletter, Nos 36 and 37, January and July 2016
- Soils Newsletter, Vol. 38, No. 2, and Vol. 39, No. 1, January and July 2016
- Use of Phosphorus Isotopes for Improving Phosphorus Management in Agricultural Systems IAEA TECDOC

Human Health

- Accuracy Requirements and Uncertainties in Radiotherapy IAEA Human Health Series
- Application of the Risk Matrix Method to Radiotherapy IAEA TECDOC
- Atlas of Skeletal SPECT/CT Clinical Images IAEA Human Health Series
- Commissioning of Radiotherapy Treatment Planning Systems: Testing for Typical External Beam Treatment Techniques IAEA TECDOC (in Russian)
- Nuclear Cardiology: Guidance on the Implementation of SPECT Myocardial Perfusion Imaging IAEA Human Health Series
- Nutritional & Health Related Environmental Studies Newsletter, Nos 3 and 4, January and July 2016
- SSDL Newsletter, Issue Nos 64 and 65, February and September 2016

Water Resources

- Management and Area-wide Evaluation of Water Conservation Zones in Agricultural Catchments for Biomass Production, Water Quality and Food Security — IAEA TECDOC
- Water and Environment News, Issue 33, September 2016

Radioisotope Production and Radiation Technology

 Cyclotron Produced Radionuclides: Emerging Positron Emitters for Medical Applications: 64Cu and 124I — IAEA Radioisotopes and Radiopharmaceuticals Reports

Emergency Preparedness and Response

- Actions to Protect the Public in an Emergency due to Severe Conditions at a Light Water Reactor
 Emergency Preparedness and Response (in Spanish)
- Arrangements for Preparedness for a Nuclear or Radiological Emergency IAEA Safety Standards Series (in Russian)
- Generic Procedures for Response to a Nuclear or Radiological Emergency at Research Reactors Emergency Preparedness and Response (in Spanish)
- Method for Developing a Communication Strategy and Plan for a Nuclear or Radiological Emergency
 — Emergency Preparedness and Response (in Spanish)
- Preparedness and Response for a Nuclear or Radiological Emergency IAEA Safety Standards Series (in Russian)

Safety of Nuclear Installations

- Application of the Safety Classification of Structures, Systems and Components in Nuclear Power Plants
 IAEA TECDOC
- Attributes of Full Scope Level 1 Probabilistic Safety Assessment (PSA) for Applications in Nuclear Power Plants — IAEA TECDOC
- Considerations on the Application of the IAEA Safety Requirements for the Design of Nuclear Power Plants — IAEA TECDOC
- Design Safety Considerations for Water Cooled Small Modular Reactors: Incorporating Lessons Learned from the Fukushima Daiichi Accident IAEA TECDOC
- Diffuse Seismicity in Seismic Hazard Assessment for Site Evaluation of Nuclear Installations Safety Reports Series
- Governmental, Legal and Regulatory Framework for Safety IAEA Safety Standards Series
- Governmental, Legal and Regulatory Framework for Safety IAEA Safety Standards Series (in Arabic)
- Governmental, Legal and Regulatory Framework for Safety IAEA Safety Standards Series (in Chinese)
- Governmental, Legal and Regulatory Framework for Safety IAEA Safety Standards Series (in Russian)
- Impact of Open Phase Conditions on Electrical Power Systems of Nuclear Power Plants Safety Reports Series
- Nuclear Accident Knowledge Taxonomy IAEA Nuclear Energy Series
- OSART Guidelines IAEA Services Series
- OSART Independent Safety Culture Assessment (ISCA) Guidelines IAEA Services Series
- Performing Safety Culture Self-Assessments Safety Reports Series
- Periodic Safety Review for Nuclear Power Plants IAEA Safety Standards Series (in Russian)
- Safety Assessment for Facilities and Activities IAEA Safety Standards Series
- Safety Assessment for Facilities and Activities IAEA Safety Standards Series (in Arabic)
- Safety Assessment for Facilities and Activities IAEA Safety Standards Series (in Chinese)
- Safety Assessment for Facilities and Activities IAEA Safety Standards Series (in Russian)
- Safety of Nuclear Fuel Cycle Facilities IAEA Safety Standards Series (in French)
- Safety of Nuclear Fuel Cycle Facilities IAEA Safety Standards Series (in Russian)
- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series
- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series (in French)

- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series (in Chinese)
- Safety of Nuclear Power Plants: Design IAEA Safety Standards Series
- Safety of Nuclear Power Plants: Design IAEA Safety Standards Series (in Arabic)
- Safety of Nuclear Power Plants: Design IAEA Safety Standards Series (in Chinese)
- Safety of Nuclear Power Plants: Design IAEA Safety Standards Series (in Russian)
- Safety of Nuclear Power Plants: Design IAEA Safety Standards Series (in Spanish)
- Safety of Research Reactors IAEA Safety Standards Series
- Safety Reassessment for Nuclear Fuel Cycle Facilities in Light of the Accident at the Fukushima Daiichi Nuclear Power Plant Safety Reports Series
- Seismic Hazard Assessment in Site Evaluation for Nuclear Installations: Ground Motion Prediction Equations and Site Response IAEA TECDOC
- Severe Accident Management Programmes for Nuclear Power Plants IAEA Safety Standards Series (in Spanish)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in Arabic)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in Chinese)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in French)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in Russian)
- Volcanic Hazard Assessments for Nuclear Installations: Methods and Examples in Site Evaluation IAEA TECDOC

Radiation and Transport Safety

- Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2012 Edition) — IAEA Safety Standards Series (in Spanish)
- Education and Training in Radiation, Transport and Waste Safety Newsletter, No. 5, March 2016
- Environmental and Source Monitoring for Purposes of Radiation Protection IAEA Safety Standards Series (in Russian)
- Operational Radiation Protection and Radioactive Waste Management for Research Reactors Training Course Series (CD-ROM)
- Preparedness and Response for a Nuclear or Radiological Emergency IAEA Safety Standards Series (in Arabic)
- Preparedness and Response for a Nuclear or Radiological Emergency IAEA Safety Standards Series (in Chinese)
- Proceedings of the International Conference on the Safe and Secure Transport of Radioactive Material: The Next Fifty Years IAEA TECDOC (CD-ROM)
- Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards IAEA Safety Standards Series (in French)
- Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards IAEA Safety Standards Series (in Spanish)
- Radiation Safety for Consumer Products IAEA Safety Standards Series

Management of Radioactive Waste

- Environmental Change in Post-closure Safety Assessment of Solid Radioactive Waste Repositories IAEA TECDOC
- Framework and Challenges for Initiating Multinational Cooperation for the Development of a Radioactive Waste Repository IAEA Nuclear Energy Series
- Predisposal Management of Radioactive Waste from Nuclear Fuel Cycle Facilities IAEA Safety Standards Series
- Predisposal Management of Radioactive Waste from Nuclear Power Plants and Research Reactors IAEA Safety Standards Series
- Processing of Irradiated Graphite to Meet Acceptance Criteria for Waste Disposal IAEA TECDOC

Nuclear Security

Conducting Computer Security Assessments at Nuclear Facilities — Non-serial Publication

- Computer Security Incident Response Planning at Nuclear Facilities Non-serial Publication
- Identification of Vital Areas at Nuclear Facilities IAEA Nuclear Security Series (in French)
- Management of the Interface between Nuclear Safety and Security for Research Reactors IAEA TECDOC
- Nuclear Security in the Uranium Extraction Industry Non-serial Publication
- Nuclear Security Management for Research Reactors and Related Facilities Non-serial Publication
- Nuclear Security Systems and Measures for Major Public Events IAEA Nuclear Security Series (in Arabic)
- Security of Nuclear Information IAEA Nuclear Security Series (in Arabic)

Nuclear Verification

- Safeguards Implementation Guide for States with Small Quantities Protocols IAEA Services Series
- Safeguards Implementation Practices Guide on Provision of Information to the IAEA IAEA Services Series

Table A30. Technical cooperation training courses held in 2016

Administration and General Services

 NTC — Establish Review and Assessment Regulatory Acceptance Criteria for the Design Malaysia

Assessment and Management of Marine and Terrestrial Environments

- NTC Environmental Monitoring of Trace Metals, Mercury and Radionuclides Benin
- NTC on Determination of TUEs in Environmental and Biological Samples Belarus
- NTC on the Application of Isotopes and Nuclear Techniques for the Quantification of Marine Contamination Dominican Republic
- RTC on Field Sampling Techniques, Phytoplankton Identification and Culture (Basic)
 Morocco
- RTC on Sampling Strategy PSP and CFP Toxin Extraction Techniques Kenya
- RTC on Field Sampling for Monitoring Purposes and on Sample Management Morocco
- RTC on Advanced Sediment Dating: Coring and Modelling Egypt
- RTC on QA and QC in Analytical and Radio-analytical Laboratories Algeria
- RTC on ISO 17025 Requirements and Implementation in Radio-analytical Laboratories Namibia
- RTC on Gamma Spectrometry Germany
- RTC on Advanced Methods for Air Pollution Source Apportionment Greece

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

- NTC on Energy Statistics and Data for Energy Planning, Application of IAEA's Tools Austria
- NTC on Deterministic Safety Assessment and Engineering Aspects Important to Safety Algeria
- NTC on Regulatory Control Algeria
- Montecarlo n-Particle Software Intermediate Training Course Chile
- 2016 WNU Summer Institute Canada
- NTC on Energy Demand Analysis (Application of the IAEA's Tool MAED) Madagascar
- Regional (AFRA) Training Course on Energy Statistics and Energy Balances for Sustainable Energy Planning and Indicators United Republic of Tanzania
- Regional (AFRA) Training Course on Energy Demand Assessment Using the IAEA's Model MAED Sudan

 Regional (AFRA) Training Course on Sub-regional Power Study for Northern Africa (Use of the IAEA's Tool MESSAGE)

Algeria

• Regional (AFRA) Training Course on Finalising Sub-regional Power Study for Eastern Africa (Use of the IAEA's Tool MESSAGE)

Kenya

• Regional (AFRA) Training Course on Assessing the Role of Cost-Effective Energy Technologies Including Nuclear Power as INDCs for Climate Change Mitigation

United States of America

- Regional (AFRA) Training Course: Joint South Africa–IAEA Nuclear Energy Management School South Africa
- RTC on X-ray and Gamma Ray Based DIR for Specialized NDT Requirement in Industry Sri Lanka
- 2nd RTC on the Development of e-Learning Courses for Teachers Peru
- National Knowledge Management School

Brazil

• E-Training on IAEA's Tool MAED for Energy Demand Analysis Austria

 RTC on Energy Demand Analysis Using IAEA's Tool MAED Panama

• E-training on IAEA's Tool MESSAGE

Austria

- RTC on Analysis of the Sustainable Energy Supply System Development Using IAEA's Tool MESSAGE Peru
- NTC on TCP IT Tools and Capacity Building Strategy Togo
- NTC on Energy Statistics and Energy Balances (Application of the IAEA Tool EBS)
 Togo
- NTC on Energy Demand Analysis (Application of the IAEA's tool MAED)
 Togo

Emergency Preparedness

- NTC on Considerations in Emergency Preparedness and Response Belarus
- Preparation, Conduct, and Evaluation of Emergency Exercises Nigeria
- Emergency Consequence Management South Africa
- Communication with the Public in a Nuclear or Radiological Emergency South Africa
- Emergency Preparedness and Response (EPR) for First Responders Ethiopia
- Emergency Preparedness and Response (EPR) for First Responders Kenya
- Medical Preparedness and Response to Radiation Emergencies Sudan

• Emergency Preparedness and Response (EPR) for First Responders Zimbabwe

• School of Radiation Emergency Management Japan

• RTC on Radiation Emergency Management

Austria

• NTC for First Responders to a Radiological Emergency

Chile

 NTC on Medical Preparedness and Response to Nuclear and Radiological Emergencies for Health Emergency Teams

Chile

• RTC on Medical Preparedness and Response to Radiation Emergencies

Mexico

• Participation in the Pilot Training Course on the Development and Use of Operational Intervention Levels for Severe Emergencies at Light Water Reactors

Austria

• Emergency Preparedness and Response (EPR)

South Africa

• NTC on Public Protective Actions for Severe Accidents

United Arab Emirates

 Workshop on Applying Emergency Preparedness and Response Requirements for NPP Licensing and Operation

Poland

- Regional Workshop to discuss the results of self-assessment and develop an action plan (ARASIA) Jordan
- Regional Workshop on Project Coordination and Hazard assessment (ASEAN)
 Thailand
- Regional Workshop on Medical Preparedness and Response to Radiation Emergencies (ARASIA) Republic of Korea
- Workshop on Notification, Reporting and Requesting Assistance Romania
- National Training Course on Medical Response Bosnia and Herzegovina
- Training Course on Emergency Preparedness and Response Cyprus
- National Training Course on Emergency Preparedness and Response Sri Lanka

Executive Management, Policy Making and Coordination

International School of Nuclear Law

France

• Nuclear Law Institute

Austria

Food and Agriculture

 Nitrogen Management in Agro-Ecosystems Austria • Nutrient and Water Management

Burundi

 Artificial Insemination + Delivery of Reproduction Enhancement Services on Farms Benin

• NTC on Pesticide Residues in Foods of Animal Origin

Costa Rica

• Training Course on Remote Sensing for Assessing Glacier Dynamics Brazil

• RTC on QMS, Enhancing Lab Internal Auditing and Quality Control/Assurance Indonesia

Basic Mutation Breeding Techniques for Crop Improvement

Cote d'Ivoire

 Mutation Breeding of Brachiaria Grass and Dolichos Lablab Species Kenya

 Mutation Breeding and Supportive Biotechnologies for Improvement of Vegetables Mauritius

 Nutrient and Water Management Practices to Enhance Rice Production Mauritania

Mass Spectrometry and Applications

Morocco

 NTC on Methodologies and Mechanisms for Screening against Abiotic (Salinity and Drought) and Biotic Stresses

Oman

 National Monitoring Teams for Diagnosis of Ebola Virus Disease Cameroon

• Diagnosis of Ebola Virus Disease

Uganda

• Proper Sampling and Statistics for a Food Safety Laboratory

Botswana

• Strengthening Capabilities for Microbial Food Hazard Analysis

Namibia

GIS Mapping

Ghana

 Enhancing Capacity for Diagnosis of Ebola Virus Disease Uganda

 National Monitoring Teams for Diagnosis of Ebola Virus Disease Cameroon

• Use of Short-lived Fallout Radionuclides

Austria

 Plant Breeding Approach in Dissemination of Mutant Varieties Zimbabwe

Mutation Breeding Field Experimental Design and Data Analysis
 Benin

• Basic Mutation Breeding Techniques for Crop Improvement United Republic of Tanzania

 Veterinary Drug Residues in Foods Malawi

- RTC on Taxonomy and Identification of Fruit Fly Pest Species for Southeast Asia Thailand
- RTC on Mutation Detection Methods Applied to Floods Malaysia
- RTC on Applications of In-vitro Techniques in Mutation Breeding of Bioenergy Crops Indonesia
- RTC on Water and Nutrient Management for Marginal Land Nepal
- Training Course on Water Management and Use of Crop Simulation Model (AquaCrop) United Arab Emirates
- Integrated Good Agricultural Practices/Technology Packages Based on Innovative Soil, Water Nutrient Management Philippines
- RTC on Handling Mutated Rice Production in Selection through Advanced Marker Added Technique on Biotic and Abiotic Traits
 Bangladesh
- Application of Mutation Breeding and Screening for Biotic and Abiotic Stresses in Cereals Jordan
- RTC on Mutation Breeding

Pakistan

- RTC Fruit Fly Detection, Surveillance and Area-Wide Integrated Pest Management Croatia
- RTC 1 on the Detection of Pox Virus Infection in Animals Austria
- RTC 2 on the Detection of Pox Virus infections in Animals Austria
- Advanced Course on Electron Beam Accelerators Ecuador
- RTC Determining the Geographical Boundaries of the NWSW and the Identification of its Natural Barriers Brazil
- RTC on Basic Mutation Breeding Cuba
- RTC on Risk Assessment in the Region Guatemala
- RTC on Integrated Fruit Fly Management Mexico
- RTC on Genetics of Parasite Resistance in Sheep: Sampling, Data Collection, Management and Analyses Uruguay
- RTC on Implementation of Biomarkers on Aquatic Organisms
 Brazil
- Phenotyping and Genotyping Mutants for Abiotic Stress Sri Lanka

Human Health

- Strengthening regional capacities for the early and rapid detection of Zika virus infections in South America
- NTC on Head, Neck and Lung Cancer Bangladesh

 NTC on Cervical Cancer and Genitourinary Malignancies Bangladesh

• NTC for RTTs

Bangladesh

 Patient Dosimetry, Dose Assessment and DRLs in Diagnostic Radiology Bosnia and Herzegovina

 NTC on Theoretical and Practical Techniques on Synthesis and Quality Control on New PET Tracers Labelled with Fluorine

Brazil

 NTC to Train 12 Professionals in QUANUM Methodology Brazil

 NTC in 4D Breathing Management and Treatment Protocols Brazil

• NTC on Radiation Protection

Colombia

• Radiation Safety Assessment

Colombia

- NTC on Impact Evaluation of the Micronutrient Supplementation Program Dominican Republic
- NTC on Advancing Palliative Care Service Capacity Fiji
- Interregional Training Course on Targeted Radionuclide Therapies United States of America
- NTC on Radiotherapy in the Management of Head and Neck Cancer with Emphasis on IMRT Kazakhstan
- NTC for Outreach in Radiotherapy and Cancer in Port Moresby Papua New Guinea
- Regional (AFRA) Training Course on Small Field Dosimetry South Africa
- Regional (AFRA) Training Course on Selection, Acceptance, Commissioning and Maintenance of Equipment in Radiotherapy

United States of America

- Regional (AFRA) Training Course on Quality Assurance of Record and Verify Systems Algeria
- Regional (AFRA) Training Course on Genitourinary (GU) Cancers Nigeria
- Regional (AFRA) Training Course for Radiation Therapists in French Morocco
- Regional (AFRA) Training Course on Quality Assurance and Optimization in SPECT/CT and PET/CT Applications

Tunisia

 Regional Training Course (Joint IAEA-ICTP workshop) on Computed Tomography: Quality Control, Dosimetry And Optimization Italy

 Regional (AFRA) Training Course on Quality Assurance/Quality Control in Mammography Algeria Joint ICTP-IAEA Regional (AFRA) Training Course on Internal Dosimetry for Medical Physicists Specializing in Nuclear Medicine
 Italy

• NTC on QA/QC in Nuclear Medicine

Namibia

• NTC on Radiopharmacy Services

Sudan

• NTC on Safe Practices in Hospital Radiopharmacy

Kenva

 RTC on Advances in Nuclear Medicine for Diagnosis and Therapy in Oncology Egypt

 RTC for Field Workers on the Harmonization of Preparation of Dose, Administration of Dose and Collection of Samples for Assessment of Body Composition
 Zambia

• RTC on Treatment of Lymphoma

Thailand

RCA Second RTC on the Basics of Intensity Modulated Radiotherapy

Indonesia

RTC on Intensity Modulated Radiation Therapy for Prostate

Philippines

• RTC on the Role of Molecular Imaging and Therapeutic Nuclear Medicine Techniques in the Management and Treatment of Relevant Non-Communicable Diseases

Korea, Republic of

• RTC on Cancer Staging for Head and Neck

Myanmar

• RTC on PET/CT with focus on CT Interpretation and TNM Staging

United Arab Emirates

• RTC on Radioimmunotherapy, Radioimmunoimaging and Emerging Nuclear Medicine Therapy Approaches United Arab Emirates

• RTC on the Role of Hybrid Imaging Technologies in Nuclear C

Kuwait

• RTC on Data Management and Data Evaluation

Indonesia

• RTC on Protection Level Calibrations for SSDLs (All MS) (SEIB)

Austria

• RTC on QMS in SSDLs (all MS)

Austria

• RTC on Clinical Applications

Singapore

• RTC on Basic QA/QC for Radiographers Working in Diagnostic Radiology

Latvia

• RTC on QA/QC in Diagnostic Radiology in a Digital Era

Slovenia

• IAEA/ESTRO Teaching Course on Basic Clinical Radiobiology

Hungary

 IAEA/ESTRO Teaching Course on IMRT and Other Conformal Techniques in Practice United Kingdom

- IAEA/ESTRO Training Course on Evidence Based Radiation Oncology Portugal
- IAEA/ESTRO Training Course on Multidisciplinary Management of Lung Cancer Russian Federation
- IAEA/ESTRO Training Course on Best Practice in Radiation Oncology Austria
- Regional Hands-on Training Course on VMAT Treatment Planning Netherlands
- RTC on Medical Physics for Clinical Radiotherapy Russian Federation
- RTC on Brachytherapy Physics Russian Federation
- Training Course on the Role of Imaging in Clinical Radiotherapy Russian Federation
- Transition from 3D Conformal Radiation Therapy to Intensity Modulated Radiation Russian Federation
- IAEA/ESNM Theoretical Learning Course on Imaging in Infection and Inflammation Austria
- IAEA/ESNM/ESTRO Course on Molecular Imaging and Radiation Oncology Portugal
- IAEA/ESNM Practical Learning Course on Imaging in Infection and Inflammation Austria
- IAEA/ESNM Therapy and Basic Dosimetry Course Austria
- IAEA/ESNM Advanced Learning Course on PET/CT in Oncology Austria
- IAEA/ESNM Training Course on Myocardial Perfusion Imaging / Gated SPECT Austria
- RTC on Hybrid Imaging: PET/CT in Oncology Latvia
- RTC on Neuroimaging Slovenia
- RTC on NM: Update on State of the Art Infection/Inflammation Imaging Italy
- RTC pathways: Define the Main Pathways for Exposure by Country and in the Latin American Region Mexico
- RTC on the Use of RT-PCR for Rapid Detection and Identification of Zika Virus Austria
- RTC on the Use of RT-PCR for Rapid Detection and Identification of Zika Virus Austria
- RTC on SIT Package for Mosquito Disease Vectors of Zika Brazil
- RTC for Physicians and Medical Physicists in Paediatric Radiotherapy Costa Rica
- RTC on Modern Radiotherapy using Linear Accelerators United States of America

- RTC on Quality Assurance in Image Guided Radiotherapy Argentina
- Refresher Course in Radiobiology for Radiation Oncologists Mexico
- RTC on Data Input into REDCap and the Doubly Labelled Water Method of Assessing Total Daily Energy Expenditure
 Chile
- RtC on In Vitro Preclinical Trials with Therapeutic Radiopharmaceuticals Uruguay
- RTC on the Validation of Protocols Brazil
- RTC on Internal Dosimetry, Clinical Protocols and Radiation Safety Cuba
- RTC on Clinical Applications of Hybrid Radionuclide Imaging Techniques for Paediatric Patients Colombia
- RTC on General Quality Assurance Management in the Practice of Radiation Medicine Chile
- NTC COS for the Application of the Risk Matrix in the Radiotherapy and Nuclear Medicine Services Costa Rica
- NTC COS in Radiation Protection in Intervention for Non-Cardiologists Costa Rica
- National training course on the Initial Medical Response in Radiological Emergencies Nicaragua
- NTC on First Response to a Radiological Emergency Paraguay
- NTC on Acceptance and Commissioning of Radiotherapy Equipment Romania
- NTC on Radiotherapy Planning in Head and Neck, Gynaecological and Breast Radiotherapy Slovakia
- Strengthening Regional Capacities for the Early and Rapid Detection of Zika Virus Infections in South America
 Austria
- NTC on Analysing Data Collected Uganda

Management of Radioactive Waste

- Interregional Training Course on Pre-Disposal and Disposal Management Austria
- Interregional Training Course on Practical Hands-on Training on The Management of Category 3-5 DSRS Morocco
- NTC on Fundamentals for the Management of Radioactive Sources Namibia
- NTC for Training the Regulatory Authority in Malaysia in the Evaluation of a Safety and Security Case for the Borehole Disposal System
 Malaysia
- Practical Training Course on Planning and Implementation of Nuclear Facility Decommissioning and Remediation of Radioactively Contaminated Sites
 United States of America

NTC on Environmental Sampling Techniques

Mauritania

• NTC on The Use of Dose and Risk Models

Mauritania

 Regional (AFRA) Training Course on Management of Low Level Radioactive Waste Including Conditioning Cat. 3-5 DSRS (English)

Morocco

Practical Hands-on Training to Create Regional Capabilities in Handling and Conditioning Category 3-5
Disused Sealed Radioactive Sources (DSRS)

Thailand

 RTC on Search for Orphan Sources and Post-discovery Activities Nepal

 RTC No 1 on the Modalities and Rules of Site Remediation Programme Management Russian Federation

 RTC No 2 on the Modalities and Rules of Site Remediation Programme Management Russian Federation

 RTC on Disposal of Low and Medium Level Waste – Theory and Physical Examples Russian Federation

 NTC for Regulators and Operators on the Implementation of Plans for the Management of Radioactive Sources

Guatemala

 RTC on Practical Aspects for Setting up and Validating National Inventories of Sealed Radioactive Sources Bahamas

Management of Technical Cooperation for Development

 RTC on Severe Accident Prevention and Mitigation Croatia

 RTC for Recently Appointed National Liaison Officers and Assistants of English-Speaking Countries in the Region of Latin America and the Caribbean Austria

Nuclear Fuel Cycle and Materials Technologies

 NTC on Materials for Nuclear Fuel Argentina

IAEA-UNECE Interregional Training Course on Uranium, Coal, Oil and Gas Classification: Towards a
Better Understanding of Energetic Basins and Application of UNFC-2009
Mongolia

• Training Workshop on Uranium Exploration Methods Argentina

• RTC on Uranium Exploration and Mining Ethiopia

 RTC on Sustainable Management and Efficient Use of Uranium Resources Morocco

 RTC on Processing of Unconventional Radioactive Mineral Resources Sri Lanka

Nuclear Power

- Interregional Training Course on Supporting Nuclear Power Infrastructure Capacity Building in Member States Introducing and Expanding Nuclear Power Korea, Republic of
- Interregional Training Course on Integrated Management Systems and Developing of the Safety Culture United States of America
- Interregional Training Course on Licensing Process for New or Expanding Nuclear Power Programmes Austria
- NTC on Energy System Modelling for Long Term Planning using MESSAGE Morocco
- KOICA-IAEA Joint Training Program on Fundamentals of Radioisotopes and Radiation Technology Korea, Republic of
- RTC on Providing Decision Support for Nuclear Power Planning and Development (Mentoring) Japan
- IAEA Training Course on Nuclear Power Infrastructure Development Japan
- Advanced On-line Monitoring Methodology for Improving Performance of Ageing Critical Structures, Systems and Components Germany
- RTC on Assessing the Potential Role of Nuclear Power in the Future Energy Mix using Multi-Criteria Decision Analysis (MCDA) Methodology Hungary
- RTC for First Time OSART Reviewers Slovakia
- Basic Professional Training Course (BPTC) on Nuclear Safety (Part 1)
 Sudan

Nuclear Science

- Montecarlo n-Particle Software Basic Training Course Chile
- Regional (AFRA) Training Course on Programmable System on Chip Sudan
- Regional (AFRA) Training Course on Operation and Maintenance of X-ray Fluoroscopy Machines Ethiopia
- 1st AFRA Research Reactor School South Africa
- RTC on Monitoring and Management Strategies of Air Pollution Morocco
- RTC on the Use of IBA Techniques to Analyse Atmospheric Aerosols

 Iordan
- RTC on Applications of Nuclear Techniques for Cultural Heritage Conservation and Preservation Brazil

Nuclear Security

 RTC on Developing Nuclear Security Regulations Mexico

Radiation and Transport Safety

 NTC on Medical Preparedness and Response to Radiation Emergencies Bosnia and Herzegovina

• NTC on First Responders

Bosnia and Herzegovina

• NTC for the Regulatory Body

Colombia

 NTC on Diagnostic and Interventional Radiology Guatemala

 NTC on Radiation Protection in Dental Radiology Guatemala

• NTC on Radiation Protection in Veterinary

Guatemala

- NTC to Train the Regulatory Authority in Evaluating a Borehole Disposal Safety and Security Case Ghana
- Regional (AFRA) Training Course for Radiation Therapists RTTs Kenya
- RTC on Second School for Drafting Regulations on Radiation Safety for Africa Member States Austria
- RTC for Regulators on Authorization and Inspection of Radiation Sources Ethiopia
- RTC on the Integrated Management System for a Regulatory Body Mauritius
- RTC on Inspections to Transport of Radioactive Material Ethiopia
- RTC on Orphan Source Search Training Philippines
- RTC on Organization and Implementation of a National Regulatory Programme for the Control of Radiation Sources

Korea, Republic of

 RTC on Organization and Implementation of a National Regulatory Programme for the Control of Radiation Sources

Korea, Republic of

- Advanced Training Course on Assessment of Occupational Exposure Due to Intakes of Radionuclides Korea, Republic of
- Regional Train the Trainers Course for Radiation Protection Officers Sri Lanka
- Postgraduate Educational Course in Radiation Protection and the Safety of Radiation Sources (PGEC-13)
 Malaysia
- RTC on the Implementation and Maintaining of Quality Management System (QMS) in Radiation Processing Facilities

Romania

- RTC on Adoption of QA/QC Methods and Procedures for Intercomparison of Radiation Dosimetry in Radiation Facilities for Process Control Hungary
- RTC on Radiation Protection in Diagnostic Radiology for Radiographers Estonia

 RTC on ORP Programmes and Safety Culture Lithuania

• Regional Train the Trainers Course for Radiation Protection Officers Kyrgyzstan

• Post-Graduate Educational Training Course on Radiation Protection and the Safety of Radiation Sources (PGEC)

Belarus

- RTC on Radiological Protection in Computed Tomography with Emphasis in Paediatrics Costa Rica
- RTC on Radiological Protection in Computed Tomography with Emphasis in Paediatrics Costa Rica
- Postgraduate Specialisation Training Course on Radiation Protection and Safety of Radiation Sources Argentina
- Regional Postgraduate Specialisation Course of Studies on Nuclear Safety Argentina
- NTC on Radiation Protection for Patients, Personnel and the Public at PET/CT Facilities Dominican Republic
- NTC for the Implementation of the Risk Matrix in Radiotherapy, Including External Beam with Accelerators and Brachytherapy

Honduras

• NTC on Radiation Protection, Including Justification and Optimization, in the Transition from Conventional to Digital Radiology and Mammography

Honduras

• NTC on Radiation Protection, Including Justification and Optimization in Computed Tomography with Emphasis in Children

Honduras

- NTC for Radiological Protection in Digital Radiography, Including Mammography
 Peru
- NTC on the Application of Risk Analysis Methods by Means of the Risk Matrix and the Software SEVRRA in Radiotherapy

Peru

- NTC for Radiation Protection in Computed Tomography with Emphasis on Paediatrics and Pregnant Women Peru
- NTC on Radiation Protection in NORM Uruguay
- NTC on Optimization in CT with emphasis in Paediatrics Colombia
- NTC for Radiation Protection in Computed Tomography, with Emphasis on Pediatrics CT Uruguay
- NTC on the application of Risk Analysis, Risk Matrix and Radiotherapy Nicaragua
- NTC on Radiation Protection in Conventional and Digital Radiology Paraguay
- NTC Radiation Protection in Accident Prevention in Radiotherapy Paraguay
- Regional Train the Trainers Course for Radiation Protection Officers Honduras

- RTC on Safety Culture in Organizations, Facilities and Activities with Ionizing Radiation Sources Chile
- NTC on Quality Control of Digital X Ray Equipment Used for Radiadiagnostics El Salvador
- NTC on Risk Analysis in Radiotherapy, Application of Risk Matrix and SEVRRA Software Chile
- NTC on Safety Analysis in Medical Practices Colombia
- RTC for Regulators on the Management of Radiation Safety Inspection Plans Introduction of IT Tool for this Purpose Chile
- RTC to Assist in the Consideration of the Gap Analysis to Draft National Regulations Uruguay

Radioisotope Production and Radiation Technology

- Training on Management of Small Animal Imaging Laboratory (IPEN)
 Brazil
- RTC on Advanced Characterization Methods of Grafted Polymeric Matrices, Designing and Up-Scaling of Radiation Grafting for Environmental and Industrial Applications
 Malaysia
- RTC on the Development and Clinical Application of Radiosynovectomy Agents Philippines
- RTC on Creating Expertise in the Use of Radiation Technology Peru
- NTC on Application of Residence Time Distribution (RTD) Studies Mexico
- RTC Basic Training Course to Establish Quality Control in Dosimetry and Inter-comparison Protocols for the Industrial Irradiators

Brazil

• RTC on Metrology Applied to the Preparation and Use of Radiopharmaceuticals Argentina

Safety of Nuclear Installations

• NTC on NDE/ISI

Armenia

- NTC on Understanding the Physics and Technology of PWRs Using Basic Principle Simulators Mexico
- International Seismic Safety Centre (ISSC) Site and External Events Design (SEED) Training Course, and RTC on Seismic Safety for Nuclear Installations Italy
- RTC on Flood Safety for Nuclear Installations: From Hazard Assessment to Structural Analysis "HASANI"
 Italy
- Regulatory Oversight of Human and Organizational Factors (HOF) Lithuania
- RTC No 1 on Infrastructure Development and Safety Assessment of WWER/PWR with Advanced Safety Features

Russian Federation

• RTC No 2 on Infrastructure Development and Safety Assessment of WWER/PWR with Advanced Safety Features

Russian Federation

 Joint Safety Culture Workshop for Eletronuclear Senior Management Team and Relevant CNEN Staff Brazil

Water Resources

- NTC in Hydrology in Fractured Media Argentina
- Interpretation of Geochemical and Hydrochemical Data in Isotope Hydrology Projects Argentina
- NTC on the Use of Hydrochemical Tools in Hydrology Basic Level Bolivia
- NTC on Isotope Hydrology Basic to Intermediate Level Bolivia
- Training Course on the Principles and Applications of Isotope Hydrology Methods Austria
- RTC on Handling and Processing Hydro-chemical and Isotopic Data Using GIS Tools Austria
- RTC on Groundwater Dating: Practical Aspects on Tritium and Radiocarbon Senegal
- IAEA/RCA Regional Training Course on the Assessment of Groundwater by Using Isotope and Related Techniques China

• RTC in Artificial Recharge of Aquifers Bolivia

• RTC in Aquifer Management Plan Development Mexico

Table A31. Relevant Agency web sites

Public web site

http://www.iaea.org/

Nuclear Power

Nuclear energy

http://www.iaea.org/OurWork/ST/NE/Main/

Nuclear power

http://www.iaea.org/NuclearPower/

Nuclear power technology development

http://www.iaea.org/NuclearPower/Technology/home.html

Nuclear power engineering

http://www.iaea.org/NuclearPower/Engineering/home.html

Nuclear energy knowledge resources

http://www.iaea.org/inis/

INPRO

http://www.iaea.org/INPRO/

Planning and economic studies

https://www.iaea.org/OurWork/ST/NE/Pess/index.html

International Nuclear Information System and Nuclear Knowledge Management

http://www.iaea.org/inis/

Nuclear energy databases

http://www.iaea.org/OurWork/ST/NE/Main/databases.html

Nuclear Fuel Cycle and Materials Technologies

Nuclear fuel cycle and waste technology

http://www.iaea.org/OurWork/ST/NE/NEFW/home.html

Integrated Nuclear Fuel Cycle Information System (iNFCIS)

https://infcis.iaea.org/

Nuclear Science

Portal for medical related nuclear data

https://www-nds.iaea.org/medportal/

Research Reactor Database

http://nucleus.iaea.org/RRDB/RR/ReactorSearch.aspx?rf=1

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/Technical-Areas/RRS/operation-maintenance.html

Nuclear Applications

Joint FAO/IAEA Programme on Nuclear Techniques in Food and Agriculture

http://www-naweb.iaea.org/nafa/index.html

Food and Agriculture

Agency managed database for officially released mutant varieties

http://mvd.iaea.org/

Human Health

Programme of Action for Cancer Therapy (PACT)

http://cancer.iaea.org/index.asp

Distance Assisted Training on-line (DATOL)

http://nucleus.iaea.org/HHW/Technologists/NuclearMedicineTech/Educationalresources/DAT/index.html

The Human Health Campus

https://humanhealth.iaea.org/

Applied Sciences of Oncology distance learning course

http://elearning.iaea.org/m2/course/index.php?categoryid=45

DIRAC

https://dirac.iaea.org/

Train the Trainers Workshop on Medical Physics Support for Nuclear or Radiological Emergencies

http://elearning.iaea.org/m2/course/view.php?id=348

Advanced Medical Physics Learning Environment (AMPLE) consisting of:

AMPLE Radiotherapy Physics

http://plms-nkm.iaea.org/m2/course/view.php?id=525

AMPLE Nuclear Medicine Physics

http://plms-nkm.iaea.org/m2/course/view.php?id=527

AMPLE Diagnostic Radiology Physics

http://plms-nkm.iaea.org/m2/course/view.php?id=526

Water Resources

Isotope measurements from non-Agency projects on rivers and groundwater (available to Member States) http://www-naweb.iaea.org/napc/ih/index.html

Environment

Reference material web site

http://nucleus.iaea.org/rpst/index.htm

Incident and Emergency Preparedness and Response

Emergency Preparedness and Response, main page:

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/safeguards/index.html

Management of Technical Cooperation for Development

http://www.iaea.org/technicalcooperation

Technical Cooperation Programme Management Online Tools

Programme Cycle Management Framework

http://pcmf.iaea.org/

InTouch

http://intouch.iaea.org/

Standards, Guides and Conventions

International conventions and agreements

http://www.iaea.org/Publications/Documents/Conventions/index.html

Legal Assistance

http://ola.iaea.org/ola/index.html

Table A32(a). Number and types of facilities under Agency safeguards by State during 2016

| | | | | * | | * | | | |
|----------------------------------|----------------|----------------------------------------------------|-------------------|-------------------------------|-----------------------------|-------------------|-----------------------------------|------------------|-------|
| State ^a | Power reactors | Research reactors and critical assemblies | Conversion plants | Fuel fabrication plants | Repro- cessing plants | Enrichment plants | Separate storage facilities | Other facilities | Total |
| Algeria | | 2 | 1 | 1 | | | | 1 | 5 |
| Argentina | 4 | 7 | 4 | 3 | | 3 | 6 | 7 | 34 |
| Armenia | 2 | | | | | | 1 | | 3 |
| Australia | | 2 | | | | | 1 | 2 | 5 |
| Austria | | 1 | | | | | | | 1 |
| Bangladesh | | 1 | | | | | | | 1 |
| Belarus | 2 | 1 | | | | | 2 | | 5 |
| Belgium | 6 | 3 | | 3 | | | 5 | 5 | 22 |
| Brazil | 3 | 6 | 1 | 1 | | 5 | 1 | 5 | 22 |
| Bulgaria | 3 | 1 | | | | | 2 | | 6 |
| Canada | 6 | 9 | 2 | 5 | | | 12 | | 34 |
| Chile | | 2 | 1 | 1 | | | | | 4 |
| China | 1 | 1 | | | | 1 | | | 3 |
| Colombia | - | 1 | | | | <u> </u> | | | 1 |
| Czech Republic | 3 | 3 | | | | | 4 | 2 | 12 |
| Democratic Republic of the Congo | 3 | 1 | | | | | | | 1 |
| Denmark | | 1 | | | | | 2 | 1 | 4 |
| Egypt | | 2 | | 2 | | | | 3 | 7 |
| Estonia | | 1 | | | | | | | 1 |
| Finland | 5 | 1 | | | | | 2 | 1 | 9 |
| France | | | | 1 | 1 | 1 | | | 3 |
| Georgia | | 1 | | | | | | 2 | 3 |
| Germany | 24 | 13 | | 1 | 1 | 1 | 24 | 6 | 70 |
| Ghana | | 1 | | | | | | | 1 |
| Greece | | 1 | | | | | | | 1 |
| Hungary | 2 | 2 | | | | | 2 | | 6 |
| India | 7 | | | 2 | | | 2 | | 11 |
| Indonesia | | 3 | | 2 | | | 1 | 1 | 7 |
| Iran, Islamic Republic of | 2 | 5 | 2 | 2 | | 3 | 1 | 3 | 18 |
| Iraq | | 1 | | | | | 1 | | 1 |
| Israel | - | 1 | | 1 | 2 | | (| 2 | 1 |
| Italy | 5 | 6 | | 1 | 2 | | 6 | 3 | 23 |
| Jamaica | | 1 | • | 0 | - | 2 | 0 | 1.5 | 1 |
| Japan | 63 | 20 | 2 | 8 | 6 | 3 | 8 | 15 | 125 |
| Jordan | 1 | 1 | | 1 | | | | 1 | 2 |
| Kazakhstan | 1 | 4 | | 1 | | | 6 | | 12 |
| Korea, Republic of | 32 | 3 | | 1 | | | 2 | 7 | 45 |
| Latvia | | 1 | | | | | | | 1 |
| Libya | | 1 | | | | | | 1 | 2 |
| Lithuania Malaysia | 1 | 1 | | | | | 3 | | 4 |

| State ^a | Power reactors | Research reactors and critical assemblies | Conversion plants | Fuel fabrication plants | Repro- cessing plants | Enrichment plants | Separate storage facilities | Other facilities | Total |
|-----------------------------|----------------|----------------------------------------------------|-------------------|-------------------------------|-----------------------------|-------------------|-----------------------------------|------------------|-------|
| Mexico | 2 | 1 | 1 | | | | 1 | | 5 |
| Morocco | | 1 | | | | | | | 1 |
| Netherlands | 2 | 3 | | | | 1 | 2 | 1 | 9 |
| Nigeria | | 1 | | | | | | | 1 |
| Norway | | 2 | | | | | | 1 | 3 |
| Pakistan | 5 | 2 | | | | | | | 7 |
| Peru | | 2 | | | | | | | 2 |
| Philippines | 1 | 1 | | | | | | | 2 |
| Poland | | 2 | | | | | 1 | | 3 |
| Portugal | | 1 | | | | | 1 | | 2 |
| Romania | 4 | 2 | 1 | 1 | | | 1 | | 9 |
| Russian Federation | | | | | | | 1 | | 1 |
| Serbia | | 1 | | | | | | | 1 |
| Slovakia | 5 | | | | | | 2 | | 7 |
| Slovenia | 1 | 1 | | | | | | | 2 |
| South Africa | 2 | 1 | 2 | 2 | | | 8 | 3 | 18 |
| Spain | 9 | | | 1 | | | 6 | 1 | 17 |
| Sweden | 12 | 1 | 1 | 1 | | | 2 | | 17 |
| Switzerland | 5 | 3 | | | | | 3 | 3 | 14 |
| Syrian Arab Republic | | 1 | | | | | | | 1 |
| Tajikistan | | 1 | | | | | | | 1 |
| Thailand | | 3 | | | | | | | 3 |
| Turkey | | 2 | | 1 | | | | | 3 |
| Ukraine | 21 | 2 | | 1 | | | 8 | 5 | 37 |
| United Kingdom | | | | | | 1 | 2 | | 3 |
| United States of America | | | | | | | 1 | | 1 |
| Uzbekistan | | 2 | | | | | | | 2 |
| Venezuela, | | | | | | | | | |
| Bolivarian Republic of | | 1 | | | | | | | 1 |
| Viet Nam | | 1 | | | | | | | 1 |

^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: 1. The numbers indicated here include projected and operational facilities, and facilities at the decommissioning stage.

^{2.} The Agency was also applying safeguards at 17 facilities in Taiwan, China.

 $Table\ A32 (b).\ Facilities\ under\ Agency\ safeguards\ or\ containing\ safeguarded\ nuclear\ material\ during\ 2016$

| State ^a | Name of facility | Location |
|--------------------|-------------------------------|----------------------------|
| Power reactors | | |
| Argentina | Atucha-I Nuclear Power Plant | Lima |
| | Atucha-II Nuclear Power Plant | Lima |
| | Carem | Lima |
| | Embalse Nuclear Power Plant | Embalse |
| Armenia | Armenian NPP | Metsamor |
| | Armenian NPP 3 | Metsamor |
| Belarus | Belarus-1 | Ostrovets |
| | Belarus-2 | Ostrovets |
| Belgium | Doel-1 & 2 NPP | Doel |
| | Doel-3 NPP | Doel |
| | Doel-4 NPP | Doel |
| | Tihange-1 NPP | Tihange |
| | Tihange-2 NPP | Tihange |
| | Tihange-3 NPP | Tihange |
| Brazil | Angra-1 | Angra Dos Reis |
| | Angra-2 | Angra Dos Reis |
| | Angra-3 | Angra Dos Reis |
| Bulgaria | NPP Kozloduy-1 & 2 | Kozloduy |
| | NPP Kozloduy-3 & 4 | Kozloduy |
| | NPP Kozloduy-5 & 6 | Kozloduy |
| Canada | Bruce 'A'.N.G.S. | Tiverton, Ontario |
| | Bruce 'B'.G.S. | Tiverton, Ontario |
| | Darlington NGD | Bowmanville, Ontario |
| | Gentilly II | Gentilly, Quebec |
| | Pickering N.G.S. | Pickering, Ontario |
| | Point Lepreau | Pt. Lepreau, New Brunswick |
| China | QSNPP | Hai Yan, Zhe Jiang |
| Czech Republic | NPP Dukovany (Edu-1) | Dukovany |
| | NPP Dukovany (Edu-2) | Dukovany |
| | NPP Temelin | Temelin |
| Finland | Hanhikivi-I | Pyhaejoki |

| State ^a | Name of facility | Location |
|--------------------|----------------------------|-----------------------------|
| | Loviisa NPP | Loviisa |
| | TVO-I | Olkiluoto |
| | TVO-II | Olkiluoto |
| | TVO-III | Olkiluoto |
| Germany | AVR | Juelich |
| | HKG-THTR 300 | Hamm |
| | KKW Brokdorf | Brokdorf |
| | KKW Brunsbuettel | Brunsbuettel |
| | KKW Emsland | Lingen (Ems) |
| | KKW GR3. 5 | Lubmin |
| | KKW Grafenrheinfeld | Grafenrheinfeld |
| | KKW Greifswald-1 & 2 | Lubmin |
| | KKW Grohnde | Emmerthal |
| | KKW Gundremmingen, Block B | Gundremmingen |
| | KKW Gundremmingen, Block C | Gundremmingen |
| | KKW Isar-1 | Essenbach |
| | KKW Isar-2 | Essenbach |
| | KKW Kruemmel | Geesthacht |
| | KKW Neckarwestheim-1 | Neckarwestheim |
| | KKW Neckarwestheim-2 | Neckarwestheim |
| | KKW Obrigheim | Obrigheim |
| | KKW Philippsburg-1 | Philippsburg |
| | KKW Philippsburg-2 | Philippsburg |
| | KKW Unterweser | Unterweser |
| | KW Biblis A | Biblis |
| | KW Biblis B | Biblis |
| | KWL-Lingen | Lingen |
| | KWW Muelheim-Kaerlich | Muelheim-Kaerlich |
| Hungary | MVM Paks NPP Ltd. I | Paks |
| | MVM Paks NPP Ltd. II | Paks |
| India | KAPS-1 & 2 | Surat, Gujrat |
| | KKNPP | Kudankulam, Tamil Nadu |
| | NAPS-1 & 2 | Bulandshahar, Uttar Pradesh |

| State ^a | Name of facility | Location |
|---------------------------|-----------------------------|-------------------------------|
| | RAPS-1 & 2 | Rawatbhata, Rajasthan |
| | RAPS-3 & 4 | Rawatbhata, Rajasthan |
| | RAPS-5 & 6 | Rawatbhata, Rajasthan |
| | TAPS | Tarapur, Maharashtra |
| Iran, Islamic Republic of | Bushehr NPP | Bushehr Halilem |
| | IR360 NPP | Darkhovein |
| Italy | Area Disattivazione Caorso | Caorso |
| | Centrale Latina | Borgo Sabotino |
| | Centrale Nucleare Di Trino | Trino Vercellese |
| | Cirene (On Load) | Borgo Sabotino |
| | So.G.I.N. CN Del Garigliano | Sessa Aurunca (CE) |
| 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 |
| | 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 |
| | Higashidoori-1 | Shimokita-gun, Aomori-ken |
| | Ikata-1 | Nishiuwa-gun, Ehime-ken |

| State ^a | Name of facility | Location |
|--------------------|------------------|------------------------------|
| | Ikata-2 | Nishiuwa-gun, Ehime-ken |
| | Ikata-3 | Nishiuwa-gun, Ehime-ken |
| | Joyo | Higashi, Ibaraki-ken |
| | Kaminoseki-1 | Kumage-gun, Yamaguchi-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-Ken |
| | Onagawa-1 | Oshika-Gun, Miyagi-Ken |
| | Onagawa-2 | Oshika-Gun, Miyagi-Ken |
| | Onagawa-3 | Oshika-Gun, Miyagi-Ken |
| | Sendai-1 | Sendai-Shi, Kagoshima-Ken |
| | Sendai-2 | Sendai-Shi, Kagoshima-Ken |
| | Sendai-3 | Satsumasendai-Shi |
| | 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 |

| State ^a | Name of facility | Location |
|--------------------|------------------|-------------------------|
| | Takahama-4 | Ohi-gun, Fukui-Ken |
| | Tokai | Tokai-Mura, Ibaraki-Ken |
| | Tokai-2 | Tokai-Mura, Ibaraki-Ken |
| | Tomari-1 | Furuu-Gun, Hokkaido |
| | Tomari-2 | Furuu-Gun, Hokkaido |
| | Tomari-3 | Furuu-Gun, Hokkaido |
| | Tsuruga-1 | Tsuruga-Shi, Fukui-Ken |
| | Tsuruga-2 | Tsuruga-Shi, Fukui-Ken |
| Kazakhstan | BN-350 | Aktau |
| Korea, Republic of | Hanbit-1 | Yeonggwang |
| | Hanbit-2 | Yeonggwang |
| | Hanbit-3 | Yeonggwang |
| | Hanbit-4 | Yeonggwang |
| | Hanbit-5 | Yeonggwang |
| | Hanbit-6 | Yeonggwang |
| | Hanul-1 | Ulchin |
| | Hanul-2 | Ulchin |
| | Hanul-3 | Ulchin |
| | Hanul-4 | Ulchin |
| | Hanul-5 | Ulchin |
| | Hanul-6 | Ulchin |
| | Kori-1 | Pusan |
| | Kori-2 | Pusan |
| | Kori-3 | Pusan |
| | Kori-4 | Pusan |
| | Shin Hanul-1 | Ulchin |
| | Shin Hanul-2 | Ulchin |
| | Shin Hanul-3 | Ulchin |
| | Shin Hanul-4 | Ulchin |
| | Shin Kori-1 | Pusan |
| | Shin Kori-2 | Pusan |
| | Shin Kori-3 | Pusan |
| | Shin Kori-4 | Pusan |

| State ^a | Name of facility | Location |
|--------------------|------------------------------|----------------------------|
| | Shin Kori-5 | Pusan |
| | Shin Kori-6 | Pusan |
| | Shin Wolsong-1 | Kyongju |
| | Shin Wolsong-2 | Kyongju |
| | Wolsong-1 | Kyongju |
| | Wolsong-2 | Kyongju |
| | Wolsong-3 | Kyongju |
| | Wolsong-4 | Kyongju |
| 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-1 | Kundian, District Mianwali |
| | Chasnupp-2 | Kundian, District Mianwali |
| | Chasnupp-3 | Kundian, District Mianwali |
| | Chasnupp-4 | Kundian, District Mianwali |
| | Kanupp | Karachi |
| Philippines | BNPP | Morong, Bataan |
| Romania | Cernavoda-3 | Cernavoda |
| | Cernavoda-4 | Cernavoda |
| | CNE Cernavoda 1 | Cernavoda |
| | CNE Cernavoda 2 | Cernavoda |
| Slovakia | JAVYS NPP A-1 | Jaslovske Bohunice |
| | JAVYS NPP V-1 | Jaslovske Bohunice |
| | NPP Mochovce Units 1 & 2 | Mochovce |
| | NPP Mochovce Units 3 & 4 | Mochovce |
| | V-2 NPP | Jaslovske Bohunice |
| Slovenia | Krsko (NEK) | Krsko |
| South Africa | Koeberg Unit I | Cape Town |
| | Koeberg Unit II | Cape Town |
| Spain | Asco-1 | Asco |
| | Asco-2 | Asco |

| State ^a | Name of facility | Location |
|--------------------|------------------------------|-----------------------|
| | C.N. Almaraz-1 | Almaraz |
| | C.N. Almaraz-2 | Almaraz |
| | C.N. Cofrentes | Cofrentes |
| | C.N. de Sta. Maria de Garona | Santa Maria de Garona |
| | C.N. Jose Cabrera | Almonacid De Zorita |
| | CN Trillo-1 | Trillo |
| | CN Vandellos-2 | Vandellos |
| Sweden | Barsebaeck Unit 1 | Loeddekoepinge |
| | Barsebaeck Unit 2 | Loeddekoepinge |
| | Forsmark Unit 1 | Oesthammar |
| | Forsmark Unit 2 | Oesthammar |
| | Forsmark Unit 3 | Oesthammar |
| | Oskarshamn Unit 1 | Oskarshamn |
| | Oskarshamn Unit 2 | Oskarshamn |
| | Oskershamn Unit 3 | Oskarshamn |
| | Ringhals-1 | Ringhals |
| | Ringhals-2 | Ringhals |
| | Ringhals-3 | Ringhals |
| | Ringhals-4 | Ringhals |
| Switzerland | KKB Beznau-I | Beznau Doettingen |
| | KKB Beznau-II | Beznau Doettingen |
| | KKG Goesgen | Goesgen Daeniken |
| | KKL Leibstadt | Leibstadt |
| | KKM Muehleberg | Muehleberg |
| Ukraine | Chernobyl NPP, Unit 1 | Chernobyl |
| | Chernobyl NPP, Unit 2 | Chernobyl |
| | Chernobyl NPP, Unit 3 | Chernobyl |
| | Chernobyl NPP, Unit 5 | Chernobyl |
| | Chernobyl NPP, Unit 6 | Chernobyl |
| | Khmelnitski-1 | Neteshin |
| | Khmelnitski-2 | Neteshin |
| | Khmelnitski-3 | Neteshin |
| | Khmelnitski-4 | Neteshin |

| State ^a | Name of facility | Location |
|---------------------------|--------------------------------|-----------------------------------|
| | Rovno-1 & 2 | Kuznetsovsk |
| | Rovno-3 | Kuznetsovsk |
| | Rovno-4 | Kuznetsovsk |
| | South Ukraine-1 | Yuzhnoukrainsk |
| | South Ukraine-2 | Yuzhnoukrainsk |
| | South Ukraine-3 | Yuzhnoukrainsk |
| | Zaporozhe-1 | Energodar |
| | Zaporozhe-2 | Energodar |
| | Zaporozhe-3 | Energodar |
| | Zaporozhe-4 | Energodar |
| | Zaporozhe-5 | Energodar |
| | Zaporozhe-6 | Energodar |
| Research reactors and cri | tical assemblies | |
| Algeria | Es Salam Reactor | Ain Oussera |
| | Nur Reactor | Draria-Bp29 Wilaya de Tipaza |
| Argentina | Argentine Reactor 0 (RA-0) | Cordoba |
| | Argentine Reactor 1 (RA-1) | Buenos Aires |
| | 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 |
| | Argentine Reactor 10 (RA-10) | Centro Atomico Ezeiza |
| Australia | HIFAR | Lucas Heights, New South Wales |
| | OPAL | Lucas Heights, New South Wales |
| Austria | TRIGA Mark II Reactor | Vienna |
| Bangladesh | Atomic Energ. Res. Estab. | Dhaka |
| Belarus | Sosny | Minsk |
| Belgium | BR1-CEN | Mol |
| | BR2-CEN | Mol |
| | Venus-CEN | Mol |
| Brazil | Brazilian Multipurpose Reactor | Ipero, Sao Paolo |
| | CDTN/IRP-R1 Reactor | Belo Horizonte |
| | IEN/Argonauta Reactor | Rio de Janeiro |
| | | 1 |

| State ^a | Name of facility | Location |
|----------------------------------|------------------------------|---------------------------|
| | IPEN/IEA-R1 | Sao Paulo |
| | IPEN/MB01 Critical Assembly | Sao Paulo |
| | LABGENE | Ipero |
| Bulgaria | IRT-2000 | Sofia |
| Canada | Biology, Chemistry, Physics | Chalk River, Ontario |
| | DIF | Chalk River, Ontario |
| | Ecole Polytechnique | Montreal, Quebec |
| | McMaster Nuc. Reactor | Hamilton, Ontario |
| | NRU Reactor | Chalk River, Ontario |
| | NRX Reactor | Chalk River, Ontario |
| | Slowpoke Alberta | Uni. of Alberta, Edmonton |
| | Slowpoke Kingston | Kingston, Ontario |
| | Slowpoke Saskatchewan | Saskatoon, Saskatchewan |
| Chile | RECH-1 | Santiago |
| | RECH-2 | Santiago |
| China | HTR-10 | Nankou, Beijing |
| Colombia | Ian-R1 R. Reactor | Bogotá |
| Czech Republic | LR-0 | Řež |
| | LVR-15 | Řež |
| | VR-1 | Prague |
| Democratic Republic of the Congo | TRIGA II Reactor | Kinshasa |
| Denmark | Danish Decommissioning-DR3 | Roskilde |
| Egypt | ET RR-1 | Inshas |
| | ET RR-2 | Inshas |
| Estonia | A.L.A.R.A. | Paldiski |
| Finland | FiR 1 | Espoo |
| Georgia | Decom. IRT-M | Tbilisi |
| Germany | AKR-2 | Dresden |
| | BER-II | Berlin |
| | FH-Furtwangen | Furtwangen |
| | FRM | Garching |
| | FRM II | Garching |
| | Helmholtz-Zentrum Geesthacht | Geesthacht |

| State ^a | Name of facility | Location |
|---------------------------|-------------------------------------|----------------------------|
| | KFA-FRJ2 | Juelich |
| | Labor-ST | Zittau |
| | SUR-100 FHU | Ulm |
| | SUR-100 Hannover | Hannover |
| | SUR-100 Stuttgart | Stuttgart |
| | SUR-100-RWTH | Aachen |
| | TRIGA Mainz | Mainz |
| Ghana | GHARR-1 Ghana Research Reactor 1 | Legon-Accra |
| Greece | GRR-1 | Attikis |
| Hungary | Budapest Research Reactor | Budapest |
| | Training Reactor | Budapest |
| Indonesia | ChTkN | Bandung |
| | PPNY | Yogyakarta |
| | RSG-GAS | Serpong |
| Iran, Islamic Republic of | Esfahan MNSR | Esfahan |
| | FARS Research Reactor FRR | Shiraz |
| | HWZPR | Esfahan |
| | IR-40 | Arak |
| | Tehran Research Reactor (TRR) | Tehran |
| Israel | Israel Res. Reactor (IRR1) | Soreq |
| Italy | AGN-201 | Palermo |
| | CEC-Complexe-Essor | Ispra |
| | CISAM-RTS-1 | San Piero a Grado |
| | Lena | Pavia |
| | TAPIRO- Casaccia | Santa Maria di Galeria |
| | TRIGA RC1 Mark II | Santa Maria di Galeria |
| Jamaica | CNS | Kingston |
| Japan | DCA | Oarai-Machi, Ibaraki-Ken |
| | FCA | Tokai-Mura, Ibaraki-Ken |
| | HTR | Kawasaki-Shi, Kanagawa-Ken |
| | HTTR | Higashi, Ibaraki-Ken |
| | JMTR | Higashi, Ibaraki-Ken |
| | JMTRC | Higashi-Gun, Ibaraki-Ken |

| State ^a | Name of facility | Location |
|--------------------|-------------------------|--------------------------------|
| | 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, Kanagawa-Ken |
| | 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 |
| Jordan | JRTR | Jordan Univ. Science & Tech. |
| Kazakhstan | IGR Reactor | Kurchatov |
| | IVG.1M Reactor | Kurchatov |
| | RA Reactor | Kurchatov |
| | WWR-K | Almaty |
| Korea, Republic of | Gijang Research Reactor | Gijang, Busan Metrp. City |
| | Hanaro | Taejeon |
| | Kyung Hee | Suwoon |
| Latvia | IRT | Salaspils |
| Libya | IRT-Tajura | Tajura |
| Malaysia | Puspati | Bangi, Selangor |
| Mexico | TRIGA Mark III | Ocoyoacac |
| Morocco | MA-R1 | Rabat, Agdal |
| Netherlands | HFR-Petten | Petten |
| | IRI. Hor | Delft |
| | LFR-Petten | Petten |
| Nigeria | NIRR-1 | Ahmadu Bello University, Zaria |
| Norway | HBWR | Halden |
| | JEEP-II | Kjeller |

| State ^a | Name of facility | Location |
|--------------------------------------|--------------------------------|--------------------------------|
| 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 & Agata | Otwock-Swierk |
| | Maria | Otwock-Swierk |
| Portugal | IST (CTN) RPI | Sacavem |
| Romania | IFIN-HH | Magurele |
| | TRIGA Research & MTR | Pitesti-Mioveni |
| Serbia | RA-RB | Vinca |
| Slovenia | TRIGA II | Ljubljana |
| South Africa | Safari-I Research Reactor | Pelindaba |
| Sweden | Studsvik AB and AB Svafo | Studsvik |
| Switzerland | AGN 211-P | Basel |
| | Crocus | Lausanne |
| | Proteus | Villigen |
| Syrian Arab Republic | MNSR | Damascus |
| Tajikistan | Argus Research Reactor | Dushande |
| Thailand | MNSR | Nakhon Ratchasima Province |
| | ONRC | Ongkharak |
| | TRR-1 | Bangkok |
| Turkey | Cekmece Nuc. Res. & Tr. Centre | Istanbul |
| | ITU-TRR-TRIGA Mark II | Istanbul |
| Ukraine | IR-100 Research Reactor | Sevastopol |
| | WWR-M Research Reactor | Kiev |
| Uzbekistan | IIN-3M Reactor | Tashkent |
| | WWR-SM Reactor | Ulugbek |
| Venezuela, Bolivarian Republic of | RV-1 Ivic R. Reactor | Altos de Pipe |
| Viet Nam | Da Lat Research Reactor | Da Lat, Lam Dong |
| Conversion plants | , | • |
| Algeria | Pilot Uranium Conversion Plant | Draria Nuclear Research Center |
| Argentina | Experimental Dry Conversion | Pilcaniyeu |
| ' 11 Solitilla | Experimental Dry Conversion | 1 ilcumycu |

| State ^a | Name of facility | Location |
|---------------------------|----------------------------------|--------------------------------|
| | UF ₆ Conversion Plant | Pilcaniyeu |
| | UO ₂ Conversion Plant | Cordoba |
| | Uranium Powder Production Fac. | Argentina |
| Brazil | USEXA | Ipero, Sao Paulo |
| Canada | Blind River | Blind River, Ontario |
| | Port Hope | Port Hope, Ontario |
| Chile | Lab. Experiment. de Conversion | Santiago |
| Iran, Islamic Republic of | EUPP | Esfahan |
| | UCF | Esfahan |
| Japan | JCO | Tokai-Mura, Ibaraki-Ken |
| | PCDF | Tokai-Mura, Ibaraki-Ken |
| Mexico | Fuel Fabrication Pilot Plant | Salazar |
| Romania | National Uranium Company | Feldioara |
| South Africa | Conversion Plant (U Plant) | Pelindaba |
| | HEU/LEU Conversion Plant | Pelindaba |
| Sweden | RMA | Stenstorp |
| Fuel fabrication plants | | |
| Algeria | UDEC | Draria Nuclear Research Center |
| Argentina | ECRI | Buenos Aires |
| | FECN | Ezeiza |
| | R. Reactor Fuel Fab. Plant | Ezeiza |
| Belgium | FBFC DNU Fab. | Dessel |
| | FBFC PU Fab. | Dessel |
| | N.V. BN | Dessel |
| Brazil | Fuel Fabrication Plant-FEC | Resende |
| Canada | Cameco, Port Hope | Port Hope, Ontario |
| | Fuel Eng. Met. Che. Op. | Chalk River, Ontario |
| | Fuel Fabrication Facility | Chalk River, Ontario |
| | GE, Hitachi Inc., Peterborough | Peterborough, Ontario |
| | GE, Hitachi Inc., Toronto | Toronto, Ontario |
| Chile | United De Metalur, Fisica (UMF) | Santiago |
| Egypt | FMPP (Fuel Manuf. Pilot Plant) | Inshas |
| | R&D - NFL | Inshas |
| | | |

| State ^a | Name of facility | Location |
|---------------------------|---------------------------------|-----------------------------|
| France | Melox de Marcoule | Chusclan |
| Germany | Advanced Nuclear Fuels | Lingen |
| India | NFC | Hyderabad |
| | NFC - NU | Hyderabad |
| Indonesia | IEBE | Serpong |
| | IPEBRR | Serpong |
| Iran, Islamic Republic of | FMP | Esfahan |
| | FPFP | Esfahan |
| 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 |
| | NFI Tokai-2 | Tokai-Mura, Ibaraki-Ken |
| | PFPF | Tokai-Mura, Ibaraki-Ken |
| | PPFF | Tokai-Mura, Ibaraki-Ken |
| Kazakhstan | UMP | Ust-Kamenogorsk |
| Korea, Republic of | KNFFP | Taejeon |
| Romania | SN NFP Subsidiary | Mioveni |
| South Africa | MTR Fuel Fabrication Plant | Pelindaba |
| | LEU Fuel Fabrication Plant | Pelindaba |
| Spain | ENUSA Fab. Juzbado | Juzbado |
| Sweden | Westinghouse Electric | Vaesteras/Finnslaetten |
| Turkey | Nuclear Fuel Pilot Plant | Istanbul |
| Ukraine | NFFP | Smolino Village, Kirovograd |
| Reprocessing plants | | |
| France | AREVA NC - UP2 & UP3 | La Hague |
| Germany | WAK / VEK | Eggenstein-Leopoldshafen |
| Italy | So. G.I.N. SpA - Impianto EUREX | Saluggia |
| | So. G.I.N. SpA - Trisaia | Rotondella |
| Japan | CPF | Tokai-Mura, Ibaraki-Ken |
| | RETF | Tokai-Mura, Ibaraki-Ken |

| State ^a | Name of facility | Location |
|-----------------------------|--------------------------------------|-----------------------------|
| | RRF | Ibaraki-Ken |
| | RRP | Kamikita-Gun, Aomori-Ken |
| | SCF | Tokai-Mura, Ibaraki-Ken |
| | TRP | Tokai-Mura, Ibaraki-Ken |
| Enrichment plants | | |
| Argentina | Lasie | Bariloche |
| | Pilcaniyeu Mock-up Laboratory | Pilcaniyeu |
| | Uranium Enrichment Pilot Plant | Pilcaniyeu |
| Brazil | CTMSP/Ladesi-Copesp | Sao Paulo |
| | CTMSP/LEI | Ipero |
| | CTMSP/USIDE | Ipero |
| | FCN-Enrichment Plant | Resende |
| | IAEV/AR/LAS | Sao Jose dos Campos |
| China | Shaanxi | Han Zhang, Shaanxi Province |
| France | Georges Besse II | Bollene |
| Germany | UTA 1 and UTA 2 | Gronau |
| Iran, Islamic Republic of | FEP | Natanz |
| | FFEP | Qom |
| | 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 Capenhurst E22, E23, A3 | Capenhurst |
| Separate storage facilities | | |
| Argentina | Cent. St. Irr. Sp. Fiss. M. (DCMFEI) | Centro Atomico Ezeiza |
| | Centr. Store Sp. Fiss. Mat. (DCMFE) | Buenos Aires |
| | DUE | Centro Atomico Ezeiza |
| | FACIRI | Ezeiza |
| | Nuclear Material Storage | Buenos Aires |
| | Storage Bunker | Centro Atomico Ezeiza |
| Armenia | SSFS | Metsamor |
| Australia | Bulk Storage Facility | Lucas Heights, Sutherland |

| State ^a | Name of facility | Location |
|--------------------|---------------------------------|--------------------------|
| Belarus | Belarus NPP FF storage | Ostrovets |
| | Sosny 2 | Minsk |
| Belgium | Belgoprocess | Dessel |
| | Belgoprocess Dry Storage | Dessel |
| | Belgoprocess UF ₆ | Dessel |
| | Elbel Doel Dry Storage | Beveren |
| | Tihange Wet Store | Tihange |
| Brazil | Planned Fuel Storage Facility | Ilha Da Madeira, Itaguai |
| Bulgaria | DSFSF KNPP 2 | Kozloduy |
| | SFSF Kozloduy 1 | Kozloduy |
| Canada | ACEL Research | Pinawa, Manitoba |
| | CRL Waste Storage Facility | Chalk River, Ontario |
| | DP Dry Storage | Tiverton, Ontario |
| | DWMF | Darlington, Ontario |
| | FPSF | Chalk River, Ontario |
| | Gentilly I | Gentilly, Quebec |
| | LTWMF | Port Hope, Ontario |
| | NMSF | Chalk River, Ontario |
| | PUFDSF | Pickering, Ontario |
| | Spent Fuel Canister Storage | Chalk River, Ontario |
| | Waste Storage Facility | Chalk River, Ontario |
| | WUFDSF | Tiverton, Ontario |
| Czech Republic | ISFS Dukovany | Dukovany |
| | ISFS Temelin | Temelin |
| | Radioactive Waste Rep. Richard | Litomerice |
| | Vao, HLWS | Řež |
| Denmark | DD Storage | Roskilde |
| | DD Waste | Roskilde |
| Finland | Geological Repository | Olkiluoto |
| | TVO-KPA-Store | Olkiluoto |
| Germany | AVR-BL | Juelich |
| | BZA Ahaus | Ahaus |
| | Daher Nuclear Technologies GmbH | Hanau |

| State ^a | Name of facility | Location |
|---------------------------|-------------------------------|----------------------------|
| | EWN Zwischenlager Nord GmbH | Lubmin |
| | HDB | Eggenstein - Leopoldshafen |
| | Kernmateriallager 87 | Rossendorf |
| | KFA-AVR | Juelich |
| | KFK-FR-2 | Eggenstein - Leopoldshafen |
| | PTB-Spaltstofflager | Hanau |
| | SZK Kruemmel | Geesthacht |
| | SZL Biblis | Biblis |
| | SZL Brokdorf | Brokdorf |
| | SZL Brunsbuettel | Brunsbuettel |
| | SZL Emsland | Lingen (Ems) |
| | SZL Grafenrheinfeld | Grafenrheinfeld |
| | SZL Grohnde | Emmerthal |
| | SZL Gundremmingen | Gundremmingen |
| | SZL Isar | Essenbach |
| | SZL Neckarwestheim | Neckarwestheim |
| | SZL Philippsburg | Philippsburg |
| | SZL Unterweser | Stadland |
| | TBH (B) 87.2 | Rossendorf |
| | TBL-G | Gorleben |
| | Uranoxid-Lager UAG | Gronau |
| Hungary | Central Isotope Storage | Budapest |
| | MVDS | Paks |
| India | PREFRE | Tarapur |
| | TAPS AFR | Tarapur |
| Indonesia | Ria-Nd ISFSF | Serpong |
| Iran, Islamic Republic of | KWS | Karaj |
| Iraq | Former Location C | Tuwaitha |
| Italy | CCRM Ispra Central Store | Ispra |
| | Centro Di Comune di Ricerca | Ispra |
| | Dep. Avogadro Elementi Irragg | Torino |
| | Essor Storage | Ispra |
| | Lab. Misure Nucleari Perla | Ispra |

| State ^a | Name of facility | Location |
|--------------------|------------------------------|----------------------------|
| | Nucleco S.p.A. | Roma |
| Japan | Fugen | Tsuruga-Shi, Fukui-Ken |
| | Fuku-I-CSFS | Futaba-Gun, Fukushima-Ken |
| | Hamaoka (Storage-UC) | Omaezaki-Shi, Shizuoka-Ken |
| | JAERI Mutsu | Mutsu-Shi, Aomori-Ken |
| | KUFFS | Sennan-Gun, Osaka |
| | NFI Kumatori-2 | Sennan-Gun, Osaka |
| | Ningyo R&D | Tomata-Gun, Okayama-Ken |
| | RFSC | Mutsu-Shi, Aomori-Ken |
| Kazakhstan | Baikal-1 DSFS | Kurchatov |
| | BN-350 Temporary Storage | Aktau |
| | DU & Used Sources Storage | Kurchatov |
| | IAEA LEU Storage Facility | Ust-Kamenogorsk |
| | Thorium Storage Facility | Kurchatov |
| | Ulba Thorium Storage | Ust-Kamenogorsk |
| Korea, Republic of | NMSF | Kaeri Site in Taejeon |
| | Uranium Residue Storage Fac. | Kaeri-Taejeon |
| Lithuania | Radioactive Waste Management | Vilnius |
| | SNFS-1 | Visaginas |
| | SNFS-2 | Visaginas |
| Mexico | IFSI | Estado de Veracruz |
| Netherlands | COVRA | Vlissingen-Oost |
| | HABOG | Vlissingen |
| Poland | ZUOP | Otwock-Swierk |
| Portugal | IST (CTN) Instalacao Piloto | Sacavem |
| Romania | CNE Cernavoda IDSFS | Cernavoda |
| Russian Federation | IUEC Storage Facility | Angarsk |
| Slovakia | JAVYS Nuclear Store | Jaslovske Bohunice |
| | JAVYS ISFS | Jaslovske Bohunice |
| South Africa | E-Building Storage Facility | Pelindaba |
| | HEU Storage Vault | Pelindaba |
| | Koeberg Castor Storage Fac. | Cape Town |
| | Thabana Pipe Store | Pelindaba |

| State ^a | Name of facility | Location |
|--------------------------|-------------------------------------|---------------------------------|
| | Vaalputs | Springbok |
| | Waste Storage Facility | Pelindaba |
| | Y-Plant Storage Facility | Pelindaba |
| | Z-Plant Storage Facility | Pelindaba |
| Spain | Almaraz Dry Storage | Almaraz |
| | Asco Dry Storage | Asco |
| | ATC Centralized Storage | Madrid |
| | Nuclenor, S.A. Storage | Santa Maria de Garona |
| | Trillo Dry Storage | Trillo |
| | Zorita Dry Storage | Almonacid de Zorita |
| Sweden | SFK | Oesthammar |
| | SKB Clab Store | Oskarshamn |
| Switzerland | Saphir | Villigen |
| | Zwibez Kernkraftwerk Beznau | Doettingen |
| | Zwilag | Wuerenlingen Aargau |
| Ukraine | Chernobyl NPP-SFS | Chernobyl |
| | Chernobyl SNFSF-2 | Chernobyl |
| | Khmelnitski FF Storage | Neteshin |
| | Rovno FF Storage | Kuznetsovsk |
| | South Ukraine FF Storage | Yuzhnoukrainsk |
| | Ukraine Centralized Dry Store | Chernobyl |
| | Zaporozhe FF Storage | Energodar |
| | Zaporozhe SFS | Energodar |
| United Kingdom | SNM Store 9 | Sellafield |
| | Thorp Product Store | Sellafield |
| United States of America | KAMS Storage | Savannah River Site |
| Other facilities | | |
| Algeria | AURES I | Birine Nucl. Site (Ain Oussera) |
| Argentina | Alpha Laboratory | Buenos Aires |
| | PPRF | Centro Atomico Ezeiza |
| | Lapep | Centro Atomico Ezeiza |
| | Triple Altura Laboratory (LTA) | Centro Atomico Ezeiza |
| | Enriched Uranium Recovery Lab (LUE) | Centro Atomico Ezeiza |
| | (LUL) | |

| State ^a | Name of facility | Location |
|---------------------------|---------------------------------|---------------------------|
| | Uranium Power Fab. Plant (PFPU) | Buenos Aires |
| | PPCA | Buenos Aires |
| Australia | R&D Labs | Lucas Heights, Sutherland |
| | SYNROC | Lucas Heights, Sutherland |
| Belgium | Belgoprocess Waste Treatment | Mol |
| | I.R.E. | Fleurus |
| | IRMM. Geel | Geel |
| | SCK-CEN Lab. | Mol |
| | SCK-CEN Pu Laboratories | Mol |
| Brazil | Aramar Store | Ipero |
| | CTMSP/Lambat | Ipero |
| | IPEN-Fuel Dev. and Tech. Fac. | Sao Paulo |
| | IPEN-Reprocessing Project | Sao Paulo |
| | LADICON | Sao Paulo |
| Czech Republic | Lab. & Stores, Centr. Anal. Lab | Řež |
| | UJP | Prague |
| Denmark | Danish Decommiss Hotcell | Roskilde |
| Egypt | Hydrometallurgy unit | Inshas |
| | Molybdenum Production Unit | Inshas, Cairo |
| | NCB | Inshas |
| Finland | Encapsulation Plant | Olkiluoto |
| Georgia | Razmnozhitel-1 | Tbilisi |
| | Sukhumi Institute | Sukhumi |
| Germany | Inst. Kernchemie | Mainz |
| | JRC-ITU | Eggenstein-Leopoldshafen |
| | Betriebsstätten der JEN | Juelich |
| | Lab. Juelich | Juelich |
| | PKA Gorleben | Gorleben |
| | WAK-Heisse Zellen der HVT | Eggenstein-Leopoldshafen |
| Indonesia | RMI | Serpong |
| Iran, Islamic Republic of | JHL | Tehran |
| | LWSCR | Esfahan |
| | MIX Separation Facility | Tehran |

| State ^a | Name of facility | Location |
|--------------------|----------------------------------|------------------------------|
| Italy | CNEN-ISTEC | Santa Maria di Galeria |
| | Impianto Plutonio | Santa Maria di Galeria |
| | OPEC 2-CAS | Santa Maria di Galeria |
| Japan | JNC Tokai R&D | Tokai-Mura, Ibaraki-Ken |
| | 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 |
| | 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 |
| | Showa | Kawasaki-Shi, Kanagawa-Ken |
| | Sumitomo-Chiba | Sodegaura-Shi, Chiba-Ken |
| | UML | Higashi, Ibaraki-Ken |
| Jordan | Jordan Sub-critical Assembly | Jordan Univ. Science & Tech. |
| Korea, Republic of | ACPF | Taejeon |
| | DFDF | Taejeon |
| | HFFL | Taejeon |
| | IMEF | Taejeon |
| | KAERI R&D Facility | Taejeon |
| | PIEF | Taejeon |
| | PRIDE | Kaeri Site, Taejeon |
| Libya | Tajura Uranium R&D Facility | Tajura |
| Netherlands | GCO/ECN Lab. | Petten |
| Norway | Research Laboratories | Kjeller |
| South Africa | Decontam. and Waste Recovery Pl. | Pelindaba |
| | Hot Cell Complex | Pelindaba |
| | Nu and Du Metals Plant | Pelindaba |
| Spain | C.A. El Cabril | El Cabril |

| State ^a | Name of facility | Location |
|--------------------|---------------------------------|---------------|
| Switzerland | AERA | Villigen |
| | CERN | Meyrin-Geneva |
| | Hot Labor | Villigen |
| Ukraine | Chernobyl Conditioning | Chernobyl |
| | Chernobyl Unit 4 Shelter | Chernobyl |
| | KHFTI | Kharkov |
| | KHFTI | Kharkov |
| | Sevastopol Subcritical Assembly | 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: 1. The Agency was also applying safeguards at 17 facilities in Taiwan, China.

- 2. Additionally under Agency safeguards there were 581 material balance areas outside facilities in 129 States and in Taiwan, China. These include 56 material balance areas established for States with a small quantities protocol based on revised standard text.
- 3. The list includes projected and operational facilities and facilities at the decommissioning stage.