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Additional Annex Information

Table A31. Coordinated research projects initiated in 2017

Nuclear Power

• Design and Performance Assessment of Passive Engineered Safety Features in Advanced Small Modular Reactors

Nuclear Science

- Recommended Input Parameter Library (RIPL) for Fission Cross Section Calculations
- Data for Atomic Processes Related to Neutral Beams in Fusion Plasma
- Enhancing Nuclear Analytical Techniques to Meet the Needs of Forensic Science
- Field-deployable Analytical Methods to Assess the Authenticity, Safety and Quality of Food
- Towards the Standardization of Small Specimen Test Techniques for Fusion Applications

Food and Agriculture

- Irradiation of Transboundary Animal Disease (TAD) Pathogens as Vaccines and Immune Inducers
- Use of Stable Isotopes to Trace Bird Migrations and Molecular Nuclear Techniques to Investigate the Epidemiology and Ecology of the Highly Pathogenic Avian Influenza (Phase II)
- Field-deployable Analytical Methods to Assess the Authenticity, Safety and Quality of Food
- Integrated Radiometric and Complementary Techniques for Mixed Contaminants and Residues in Foods
- Integration of the SIT with Biocontrol for Greenhouse Insect Pest Management
- Improving Resilience to Drought in Rice and Sorghum through Mutation Breeding

Human Health

- Application of Stable Isotope Techniques in Environmental Enteric Dysfunction Assessment and Understanding its Impact on Child Growth
- Applying Nuclear Techniques to Understand the Link between Early Life Nutrition and Later Childhood Health
- Gated-SPECT in the Planning of Ischemia Guided PCI in STEMI Patients
- Use of PET-CT with Gallium-68 Labelled Prostrate Specific Membrane Antigen in the Diagnosis and Follow-up of Patients with Prostate Cancer
- Applications of Biological Dosimetry Methods in Radiation Oncology, Nuclear Medicine, and Diagnostic and Interventional Radiology (MEDBIODOSE)
- Dosimetry in Molecular Radiotherapy for Personalized Patient Treatments

Environment

• Behaviour and Effects of Natural and Anthropogenic Radionuclides in the Marine Environment and their use as Tracers for Oceanography Studies

Radioisotope Production and Radiation Technology

- New Ways of Producing Tc-99m and Tc-99m Generators (Beyond Fission and Cyclotron Methods)
- Imaging Technologies for Process Investigation and Components Testing

Nuclear Security

• Advancing Radiation Detection Equipment for Detecting Nuclear and Other Radioactive Material Out of Regulatory Control

Table A32. Coordinated research projects completed in 2017

Nuclear Power

• Application of Advanced Low Temperature Desalination Systems to Support Nuclear Power Plants and Non-Electric Applications

Nuclear Science

- Development of an Integrated Approach to Routine Automation of Neutron Activation Analysis
- Conceptual Development of Steady-state Compact Fusion Neutron Sources
- Atomic and Molecular Data for State-resolved Modelling of Hydrogen and Helium and their Isotopes in Fusion Plasma
- Establishment of Material Properties Database for Irradiated Core Structural Components for Continued Safe Operation and Lifetime Extension of Ageing Research Reactors

Food and Agriculture

• Approaches to Improvement of Crop Genotypes with High Water and Nutrient Use Efficiency for Water Scarce Environments

Human Health

- Development of Quality Audits for Advanced Technology (IMRT) in Radiotherapy Dose Delivery
- Safety and Optimization of Radiation Sterilization in Tissue Banking: Studies on Functional Properties of Irradiated Tissue Grafts
- Evidence-Based Assessment of Radiotherapy Demand and Quality of Radiotherapy Services
- Doctoral CRP on Stable Isotope Techniques to Assess Intake of Human Milk and Body Composition of Infants and Young Children up to Two Years of Age

Water Resources

• Stable Isotopes in Precipitation and Paleoclimatic Archives in Tropical Areas to Improve Regional Hydrological and Climatic Impact Models

Environment

• Ocean Acidification and the Economic Impact on Fisheries and Coastal Society

Radioisotope Production and Radiation Technology

- Application of Two and Three Dimensional Neutron Imaging with Focus on Cultural Heritage Research
- Development of Ga-68 based PET-Radiopharmaceuticals for Management of Cancer and other Chronic Diseases
- Application of Radiation Technology in the Development of Advanced Packaging Materials for Food Products

Table A33. Publications issued in 2017

Nuclear Power

- Available Reprocessing and Recycling Services for Research Reactor Spent Nuclear Fuel IAEA Nuclear Energy Series
- Benchmark Analysis for Condition Monitoring Test Techniques of Aged Low Voltage Cables in Nuclear Power Plants IAEA TECDOC
- Benchmark Analysis of EBR-II Shutdown Heat Removal Tests IAEA TECDOC
- Energy, Electricity and Nuclear Power Estimates for the Period up to 2050 Reference Data Series
- Guidelines for Preparing and Conducting an Integrated Nuclear Infrastructure Review (INIR) IAEA Services Series
- Handbook on Ageing Management for Nuclear Power Plants IAEA Nuclear Energy Series
- Industrial Applications of Nuclear Energy IAEA Nuclear Energy Series
- Instrumentation and Control Systems for Advanced Small Modular Reactors IAEA Nuclear Energy Series
- Integral Pressurized Water Reactor Simulator Manual Training Course Series
- Integral Pressurized Water Reactor Simulator Manual: Exercise Handbook Training Course Series
- Managing the Financial Risk Associated with the Financing of New Nuclear Power Plant Projects IAEA Nuclear Energy Series
- Nuclear Power Reactors in the World Reference Data Series
- On-line Monitoring of Instrumentation in Research Reactors IAEA TECDOC
- Operating Experience with Nuclear Power Stations in Member States in 2016
- Opportunities for Cogeneration with Nuclear Energy IAEA Nuclear Energy Series
- Research Reactors for the Development of Materials and Fuels for Innovative Nuclear Energy Systems IAEA Nuclear Energy Series
- Research Reactors: Safe Management and Effective Utilization IAEA Proceedings Series

Nuclear Fuel Cycle and Materials Technology

- Data Analysis and Collection for Costing of Research Reactor Decommissioning IAEA TECDOC
- Decommissioning of Facilities IAEA Safety Standards Series (French)
- Decommissioning of Facilities IAEA Safety Standards Series (Spanish)
- Investigations of Materials under High Repetition and Intense Fusion Pulses IAEA TECDOC
- Model Regulations for Decommissioning of Facilities IAEA TECDOC
- Use of Low Enriched Uranium Fuel in Accelerator Driven Subcritical Systems IAEA TECDOC

Capacity Building and Nuclear Knowledge for Sustainable Energy Development

- Application of the Management System for Facilities and Activities IAEA Safety Standards Series
- Knowledge Loss Risk Management in Nuclear Organizations IAEA Nuclear Energy Series

Nuclear Science

- Atomic and Plasma–Material Interaction Data Volume 17 Atomic and Plasma–Material Interaction Data for Fusion
- Development of a Reference Database for Particle Induced Gamma Ray Emission (PIGE) Spectroscopy — IAEA TECDOC
- Nuclear Data Newsletter Issue No. 62, January 2017
- Nuclear Data Newsletter Issue No. 63, July 2017
- Proficiency Testing by Interlaboratory Comparison Performed in 2010–2015 for Neutron Activation Analysis and Other Analytical Techniques — IAEA TECDOC
- Status of Radon Related Activities in Member States Participating in Technical Cooperation Projects in Europe IAEA TECDOC
- Strategic Planning for Research Reactors IAEA Nuclear Energy Series

Environment

- Advancing the Global Implementation of Decommissioning and Environmental Remediation Programmes — IAEA Proceedings Series
- Certification of Mass Fractions of Polycyclic Aromatic Hydrocarbons, Organochlorines and Polybrominated Diphenyl Ethers in IAEA-459 Marine Sediment Sample — IAEA Analytical Quality in Nuclear Applications Series
- Certification of Trace Elements and Methylmercury Mass Fractions in Tuna Fish Flesh Homogenate IAEA Analytical Quality in Nuclear Applications Series
- Determination and Interpretation of Characteristic Limits for Radioactivity Measurements IAEA Analytical Quality in Nuclear Applications Series
- Environment Laboratories Newsletter Vol. 3, No. 2, July-December 2016
- Environment Laboratories Newsletter Vol. 4, No. 1, January–June 2017
- Proficiency Test for Determination of Radionuclides in Sea Water IAEA Analytical Quality in Nuclear Applications Series
- In Situ Analytical Characterization of Contaminated Sites Using Nuclear Spectrometry Techniques IAEA Analytical Quality in Nuclear Applications Series
- International Peer Review of the Environmental Impact Assessment Performed for the Licence Application of the Baltic-1 Nuclear Power Plant, Kaliningrad, Russian Federation Non-serial
- Nuclear Security Systems and Measures for Major Public Events IAEA Nuclear Security Series (Arabic)
- Performance of Models in Radiological Impact Assessment for Normal Operation IAEA TECDOC
- The 1997 Vienna Convention on Civil Liability for Nuclear Damage and the 1997 Convention on Supplementary Compensation for Nuclear Damage Explanatory Texts IAEA International Law Series
- The Environmental Behaviour of Polonium Non-serial
- X Ray Fluorescence in the IAEA and its Member States Newsletter No. 27, April 2017

Food and Agriculture

- Animal Production and Health Newsletter, No. 66, July 2017
- Animal Production and Health Newsletter, No. 67, January 2018
- Approaches to Improvement of Crop Genotypes with High Water and Nutrient Use Efficiency for Water Scarce Environments IAEA TECDOC
- Cosmic Ray Neutron Sensing: Use, Calibration and Validation for Soil Moisture Estimation IAEA TECDOC
- Food and Environmental Protection Newsletter Vol. 20, No. 2, July 2017
- Food and Environmental Protection Newsletter Vol. 20, No.1, January 2017
- Guidelines for Developing Wetlands in Agricultural Catchments IAEA TECDOC
- Insect Pest Control Newsletter No. 88, January 2017
- Insect Pest Control Newsletter No. 89, July 2017
- Insect Pest Control Newsletter No. 90, January 2018
- Managing Irrigation Water to Enhance Crop Productivity under Water-limiting Conditions: A Role for Isotopic Techniques IAEA TECDOC
- Manual of Good Practice in Food Irradiation Technical Reports Series
- Manual of Standard Operating Procedures for Veterinary Drug Residue Analysis Training Course Series (in French)
- Manual of Standard Operating Procedures for Veterinary Drug Residue Analysis Training Course Series (in Spanish)
- Plant Breeding and Genetics Newsletter, No. 38, January 2017
- Plant Breeding and Genetics Newsletter, No. 39, July 2017
- Soils Newsletter Vol.40 No.1, June 2017
- Soils Newsletter Vol.39 No.2, January 2017
- Soils Newsletter Vol.40 No.2, January 2018
- Use of Carbon Isotopic Tracers in Investigating Soil Carbon Sequestration and Stabilization in Agroecosystems IAEA TECDOC

Human Health

- Dosimetry of Small Static Fields Used in External Beam Radiotherapy Technical Reports Series
- Nutritional & Health Related Environmental Studies Newsletter, No. 5, January 2017
- Nutritional & Health Related Environmental Studies Newsletter, No. 6, August 2017
- Radiotherapy in Cancer Care: Facing the Global Challenge Non-serial Publications
- SSDL Newsletter Issue No. 66, June 2017
- SSDL Newsletter Issue No. 67, December 2017
- The Transition from 2-D Brachytherapy to 3-D High Dose Rate Brachytherapy: Training Material Training Course Series (CD-ROM)

Radioisotope Production and Radiation Technology

- Cyclotron Based Production of Technetium-99m IAEA Radioisotopes and Radiopharmaceuticals Reports
- Uses of Ionizing Radiation for Tangible Cultural Heritage Conservation IAEA Radiation Technology Series

Emergency Preparedness and Response

- Guidelines on the Harmonization of Response and Assistance Capabilities for a Nuclear or Radiological Emergency Emergency Preparedness and Response
- Joint Radiation Emergency Management Plan of the International Organizations Emergency Preparedness and Response
- Operational Intervention Levels for Reactor Emergencies Emergency Preparedness and Response

Safety of Nuclear Installations

- Assessment of Equipment Capability to Perform Reliably under Severe Accident Conditions IAEA TECDOC
- Assessment of Vulnerabilities of Operating Nuclear Power Plants to Extreme External Events IAEA TECDOC
- Communication and Consultation with Interested Parties by the Regulatory Body IAEA Safety Standards Series
- Ensuring Robust National Nuclear Safety Systems Institutional Strength in Depth INSAG Series
- 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 French)
- Governmental, Legal and Regulatory Framework for Safety IAEA Safety Standards Series (in Russian)
- Governmental, Legal and Regulatory Framework for Safety IAEA Safety Standards Series (in Spanish)
- 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 Russian)
- Leadership and Management for Safety IAEA Safety Standards Series (in Spanish)
- Safety Aspects of Nuclear Power Plants in Human Induced External Events: General Considerations Safety Reports Series
- Safety Aspects of Nuclear Power Plants in Human Induced External Events: Margin Assessment Safety Reports 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 French)
- Safety Assessment for Facilities and Activities IAEA Safety Standards Series (in Russian)
- Safety of Nuclear Fuel Cycle Facilities IAEA Safety Standards Series
- Safety of Nuclear Fuel Cycle Research and Development Facilities IAEA Safety Standards Series
- Safety of Nuclear Fuel Reprocessing Facilities IAEA Safety Standards Series

- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series (in Arabic)
- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series (in Chinese)
- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series (in Russian)
- 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 French)
- Safety of Nuclear Power Plants: Design IAEA Safety Standards Series (in Spanish)
- Safety of Research Reactors IAEA Safety Standards Series (in Chinese)
- Safety of Research Reactors IAEA Safety Standards Series (in French)
- Safety of Research Reactors IAEA Safety Standards Series (in Russian)
- Safety of Research Reactors IAEA Safety Standards Series (in Spanish)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in Chinese)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in Russian)
- Site Evaluation for Nuclear Installations IAEA Safety Standards Series (in Spanish)
- The Management System for Nuclear Installations— IAEA Safety Standards Series (in Spanish)

Radiation and Transport Safety

- Preparedness and Response for a Nuclear or Radiological Emergency IAEA Safety Standards Series (in French)
- Preparedness and Response for a Nuclear or Radiological Emergency IAEA Safety Standards Series (in Russian)
- Severe Accident Mitigation through Improvements in Filtered Containment Vent Systems and Containment Cooling Strategies for Water Cooled Reactors IAEA TECDOC

Management of Radioactive Waste

- An International Peer Review of the Safety Options Dossier of the Project for Disposal of Radioactive Waste in Deep Geological Formations (Cigéo) Non-serial
- Contents and Sample Arguments of a Safety Case for Near Surface Disposal of Radioactive Waste IAEA TECDOC
- Generic Post-closure Safety Assessment for Disposal of Disused Sealed Radioactive Sources in Narrow
 Diameter Boreholes IAEA TECDOC
- Management of Large Volumes of Waste Arising in a Nuclear or Radiological Emergency IAEA TECDOC
- Model Regulations for Borehole Disposal Facilities for Radioactive Waste IAEA TECDOC
- Selection of Technical Solutions for the Management of Radioactive Waste IAEA TECDOC
- Use of the Benchmarking System for Operational Waste from WWER Reactors IAEA TECDOC

Nuclear Security

- Identification of High Confidence Nuclear Forensics Signatures IAEA TECDOC
- International Conference on Effective Nuclear Regulatory Systems: Sustaining Improvements Globally — IAEA Proceedings Series
- International Conference on Nuclear Security: Commitments and Actions IAEA Proceedings Series
- Nuclear Security Culture IAEA Nuclear Security Series (in Spanish)
- Nuclear Security Systems and Measures for Major Public Events IAEA Nuclear Energy Series
- Radiological Crime Scene Management IAEA Nuclear Security Series (in Arabic)
- Security of Nuclear Information IAEA Nuclear Security Series (in Arabic)
- Security of Nuclear Information IAEA Nuclear Security Series (in French)
- Self-assessment of Nuclear Security Culture in Facilities and Activities IAEA Nuclear Security Series

Nuclear Verification

- Guidance for States Implementing Comprehensive Safeguards Agreements and Additional Protocols IAEA Services Series (in Arabic)
- Guidance for States Implementing Comprehensive Safeguards Agreements and Additional Protocols IAEA Services Series (in French)
- International Safeguards in the Design of Fuel Fabrication Plants IAEA Nuclear Energy Series
- International Safeguards in the Design of Uranium Conversion Plants IAEA Nuclear Energy Series
- Safeguards Implementation Guide for States with Small Quantities Protocols IAEA Services Series (in Arabic)

Table A34. Technical cooperation training courses held in 2017

Energy

- RTC on Financial Analysis of Power Sector Projects Using the IAEA's FINPLAN Model Austria
- Interregional Training Course on Stakeholder Communications Tools and Safety Aspects for the Uranium Production Cycle Activities Malaysia
- RTC on Analysis of Atmospheric Particulate Matter and Chemical Components (Black Carbon, PM, Organic Carbon, Dust, Major Ions)
 Ghana
- RTC on Evaluation of Cost-effective Energy Technologies, including Nuclear Power, as Nationally Determined Contributions to Climate Change Mitigation Romania
- Interregional Training Course on the Implementation of National Requirements for Nuclear Power Programmes

United Arab Emirates

- Practical Training Course on Planning and Implementation of Nuclear Facility Decommissioning and Remediation of Radioactively Contaminated Sites United States of America
- RTC on Validation of X ray Emission Techniques for the Analysis of Air Particulate Matter Austria
- RTC on Advanced Multivariate Statistics Techniques in Data Evaluation Uruguay
- Interregional Training Course on Supporting Nuclear Power Infrastructure Capacity Building focusing on Preparation of Construction and Licensing Process for New or Expanding Nuclear Power Programmes Republic of Korea
- RTC on Management Options for Disused Sealed Radioactive Sources of Category 3-5 Islamic Republic of Iran
- RTC on Evaluation of Cost-effective Energy Technologies, Including Nuclear Power, as NDCs for Climate Change Mitigation United States of America
- RTC (hands-on) on DSRS Management to Assist MSs to Manage DSRS in a Safe and Secure Manner Category 3-5 Sources Malaysia
- RTC on Life-cycle Management of Uranium Projects Democratic Republic of the Congo
- Interregional Training Course on Management Systems and the Development of Organisational Culture for Safety

United States of America

- Regional (AFRA) Training Course on Assessing the Role of Cost-effective Energy Technologies including Nuclear Power as NDCs for Climate Change Mitigation Ethiopia
- Interregional Training Course on Advanced Course in Financing Nuclear Power Plant (NPP) Projects United States of America
- IAEA-UNECE Interregional Training Course on Unconventional Uranium Resource Assessment, UNFC Classification and Reporting with Particular Emphasis on Uranium as Co- or By-product Argentina
- Interregional Training Course on Successful Launching and Mentoring of Nuclear Power Programme in Korea

Republic of Korea

 RTC on Evaluation of Energy Options, including Nuclear Power, as NDCs for Climate Change Mitigation Austria

- Interregional Training Course on Nuclear Energy Management School Focusing on Nuclear Infrastructure Development Russian Federation
- Interregional Training Course on the Licensing Process for Nuclear Power Plants Russian Federation
- Interregional Training Course on Establishing a National Position for New Nuclear Power Programmes Russian Federation
- Interregional Training Course on Safety Review and Assessment by the Regulatory Body Russian Federation
- Interregional Training Course on Human Resource Development and Workforce Planning for New or Expanding Nuclear Power Programmes
- Austria
 IAEA Training Course on Nuclear Power Infrastructure Development Japan
- TC Training Course Covering Essential Knowledge on Nuclear Power Plant Design Safety Italy
- TC Training on Finalizing Sub-regional Power Study for Southern Africa (use of the IAEA's tool MESSAGE) Botswana
- RTC No. 4 on Infrastructure Development and Safety Assessment of WWER-type Pressurized Water Reactors with Advanced Safety Features Russian Federation
- TC Training on Finalizing Sub-regional Power Study for Central Africa (use of the IAEA's tool MESSAGE) Cameroon

Food and Agriculture

- RTC on Fruit Fly Detection & Surveillance and Databases & Data Analysis Kenya
- RTC on Strengthen National Planning in the Formulation and Implementation of Tsetse and Trypanosomiasis Intervention Programmes in Member States of the ECOWAS Burkina Faso
- RTC on Advanced Mutation Techniques for Induction and Screening of Green Traits in Crops China
- RTC on Basic Maintenance and Troubleshooting of Food Safety Analytical Instrumentation including Effective Use of Instrument Software Singapore
- RTC on Mosquito Identification, Surveillance and Trapping Methods for Area-wide Integrated Mosquito Management in the European Area Austria
- RTC on Soil Sampling Strategy, Harmonization of the Sampling Procedures and Radionuclide Analyses Morocco
- RTC on Integrated Agricultural Production Systems Kuwait
- RTC on Induced Mutations and Supportive Biotechnologies for Cereal Breeding Austria
- RTC on Radio Receptor Assays, Related Screening and Confirmatory Methods for Veterinary Drug Residues and Associated Chemical/Natural Food Contaminants Thailand
- RTC on Mosquito Detection, Surveillance, Data Recording and Analysis for Area-Wide Integrated Mosquito Management in the European Area Spain
- RTC on Biotic Resistance and Plant Pathology (1Q 2017) Costa Rica

- Train-the-Trainer Course in Basic Maintenance and Troubleshooting of Analytical Instruments for Food and Environmental Safety Monitoring and Control Programmes South Africa
- Regional (AFRA) Training Course on Food Microbiology Testing Sudan
- RTC on Sampling Strategies Costa Rica
- Training Course on Pesticides
 Benin
- Regional (AFRA) Training Course on Method Development/Validation for Mycotoxins Analysis in Food/Feed
 - Zambia
- RTC on Free Open Source Software for GIS and Data Management Applied to Fruit Flies in Southeast Asia

Thailand

- RTC on Methodologies and Mechanisms for Screening against Abiotic Stresses Using Mutation Breeding and Molecular Markers Thailand
- RTC on Animal breeding and selection practices Argentina
- Interregional Training Course on Pesticides, Minor Use/Species and Related Plant Products of Public Health and Trade Importance Singapore
- RTC on the Use of the IAEA Genetic Sequencing Services for Member States Morocco
- Regional (AFRA) Training Course on the Use of Advanced Nuclear and Related Tools for Agricultural Water Management and Advance Use of Crop Simulation Model (AquaCrop) Austria
- Regional (AFRA) Training Course on Improving Resilience to Drought Through Mutation Breeding Namibia
- Regional (AFRA) Training Course on Analytical Methods for Veterinary Drug Residues in Foods Using Radio Receptor Assay and Complementary Techniques Morocco
- Interregional Training Course on Analytical Method Harmonization for Monitoring of Marine Biotoxins in Foods of Public Health and Trade Significance Costa Rica
- Regional (AFRA) Training Course on Vector Mapping and Surveillance Uganda
- Group Training Course for New Comers
 Algeria
- Regional (AFRA) Training Course on Methodologies and Mechanisms for Screening of Mutants against Biotic Stresses Cameroon
- RTC on Analytical Methods for Residues of Selected Pesticides Uruguay
- RTC on the Use of Decision Making Tools for Remediation Measures in Animal Production Systems Hungary
- TC Training Course on Harmonization of Sample Preparation and Analytical Methods Colombia
- RTC on Health Management of Small Ruminants Including Parasites Control Peru
- RTC on Field Procedures for Mosquito Population Surveillance, Detection and Quantification Albania

- TC RTC on Genetic Improvement to Enhance the Quality of Crops Through Mutation Induction Peru
- TC Training on Identification of Non-native Tephritid Fruit Flies of Quarantine Significance Austria
- TC Interregional Training Course on Radionuclides Singapore
- IAEA/RCA Training Course on Best Practices to Improve Soil Fertility and Crop Productivity under Marginal Lands Using Conventional and Isotopic Techniques Malaysia
- TC RTC on Quarantine and International Standards for Phytosanitary Measures for Fruit Flies in Southeast Asia

Viet Nam

- TC Training on Use of the Sterile Insect and Related Techniques for the Area-wide Integrated Management of Plant, Animal and Human Insect Pests Guatemala and Mexico
- Regional training on Assisted Reproductive Techniques to Enhance Small Ruminant Productivity Argentina
- TC Training on Rice Breeding for Drought Tolerance Philippines
- TC Training on Precision Technology for Sustainable Agriculture and Measurement of Green House Gases Under Field and Laboratory Conditions Malaysia
- RTC on the Use of Drones for the Release of Sterile Male Tsetse Flies for the SIT Uganda

Health and Nutrition

- Regional (AFRA) Training Course on Quality Management in Radiotherapy Zimbabwe
- Introduction to Quality Practices in Diagnostic Radiology for Radiographers/Radiological Technologists United States of America
- RTC on Assessment of Body Composition, including Analysis of Deuterium Enrichment by Fourier Transform Infrared Spectrometer (FTIR) with Quality Assurance (QA) Albania
- Regional (AFRA) Training Course for NM Technologists on Dose and Patient Preparation for Adult and Paediatric NM Imaging, including Basic QA/QC of SPECT and SPECT/CT Equipment Tunisia
- RTC on Data Management Ethiopia
- RTC on Best Practices in Proficiency Tests for Measurement of Radionuclides in Environmental Samples Ethiopia
- RTC on Clinical Applications of Stereotactic Body Radiotherapy (SBRT) in Lung and Liver Cancers India
- RTC on Assessment of Physical Activity Using Accelerometers and Questionnaires Montenegro
- RTC for Physicians in Paediatric Radiotherapy Costa Rica
- Interregional Training Course on Data Management and Statistical Analysis Austria
- Regional (AFRA) Training Course for NM Technologists on Dose and Patient Preparation for Adult and Paediatric NM Imaging, including Basic QA/QC of SPECT and SPECT/CT Equipment (in English) United Republic of Tanzania
- RTC on Uncertainty Estimations for Radiation Measurements in Secondary Standard Dosimetry Laboratories Austria

- RTC on Analysis of the Data Collected in RLA6073 at National and Regional Level Uruguay
- RTC on the Procedures for the Establishment of Oncological Functional Units Panama
- RTC on Determination of Po-210 in Environmental Samples by Alpha-Particle Spectrometry Morocco
- RTC on QA/QC and Dosimetry in Interventional Radiology Italy
- RTC on Principles and Practice on the Use of Radiopharmaceuticals for Bone Pain Palliation and Treatment of Other Malignancies Philippines
- RTC on Intensity Modulated Radiotherapy for Breast Cancer, Pancreas Cancer, and Anorectal Cancer Japan
- IAEA-HICARE-CC International Training Course on Advance Radiation Therapy Technology Japan
- Regional (AFRA) Training Course on Radiopharmacy Operational Level III Morocco
- RTC on Intensity Modulated Radiation Therapy for Lung and Oesophageal Cancers Thailand
- RTC on Establishing a Basic Radiotherapy Center United States of America
- RTC on Patient Care for Nurses and Technologists in the Field of Radiation Medicine El Salvador
- RTC for Nuclear Medicine Physicians and Referring Physicians for the Strengthening of Capacities in Diagnosis and Treatment with Radionuclides in Paediatric Mexico
- Regional (AFRA) Training Course on QA/QC and Dosimetry Procedures for Radiography and Fluoroscopy Imaging
- EgyptESMIT Spring Course Netherlands
- IAEA/ESTRO Teaching Course on Dose Modelling Verification for External Beam Radiotherapy Poland
- ESMIT Autumn Course Romania
- ESTRO Teaching Course on IMRT and other Conformal Techniques in Practice Spain
- ESMIT/ESTRO Joint Course on Molecular Imaging and Radiation Oncology France
- RTC on Modern Radiotherapy Using Linear Accelerators United States of America
- ESTRO Teaching Course on Physics for Modern Radiotherapy (Joint Course for Clinicians and Physicists)
 - Romania
- ESTRO Teaching Course on Advanced Treatment Planning Spain
- Comprehensive Quality Management in Radiotherapy Quality Assessment and Improvement Belgium
- Best Practice in Radiation Oncology Train the RTT (Radiation Therapists) Trainers, Phase II (TTT cycle 2016-2017) Austria
- Regional Hands-on Training Course on Image Guided Radiation Therapy (IGRT) Netherlands

- Master in Advanced Radiotherapy Techniques Chile
- Introduction to Hybrid Imaging in Oncology (ESOR) Austria
- RTC on Update of High Dose Rate for Brachytherapy Chile
- RTC in Nuclear Medicine: New Developments in Molecular Imaging and Targeted Radionuclide Therapy Austria
- RTC on Advanced PET/CT Hungary
- RTC on Basic PET/CT Hungary
- RTC on the Implementation of the IAEA-TRS-483 Code of Practice for Small Photon Beam Dosimetry Cuba
- RTC on High Accuracy Radiotherapy: Technical and Physical Requirements (AMPR) Russian Federation
- RTC on the Role of Advanced Imaging in Clinical Radiotherapy (AMPR) Russian Federation
- RTC on Theranostics and Molecular Radiotherapy in Brussels, Belgium, from 2 to 6 October 2017 Belgium
- RTC on Radiation Protection and Safety and Accident Prevention in Radiotherapy (FMBC) Russian Federation
- TC Regional (AFRA) Training Course on Infection and Oncologic Imaging Using Hybrid Imaging Technologies (SPECT/CT and PET-CT) ADVANCED COURSE (in English) South Africa
- RTC on Quality Audits of Intensity Modulated Radiation Therapy Singapore
- IAEA/RCA RTC on Theragnostics and Dementias Japan
- RTC on the Preparation and Application of Bone Pain Palliation Therapeutic Agents Indonesia
- RTC on Quality Assurance in Nuclear Cardiology Chile
- TC RTC on the Production of Mo-99 Using the Reaction Mo-98 and Molybdenum Trioxid Chile
- TC RTC for Nuclear and Referring Physicians in the Clinical Applications of Diagnostic and Therapeutic Techniques with Radionuclides with Emphasis on Hybrid Image with SPECT-CT Chile
- Radiobiology for Radiation Oncologists and Medical Physicists (FMBC) Russian Federation
- Regional Multidisciplinary Training Course on Quality and Optimization Practices in Computed Tomography (CT) Latvia
- Regional (AFRA) Training Course on Infection and Oncologic Imaging Using Hybrid Imaging Technologies (SPECT/CT and PET-CT) Nigeria

Industrial Applications/Radiation Technology

- Regional (AFRA) Training Course on Quality Management in Radiotherapy Zimbabwe
- Introduction to Quality Practices in Diagnostic Radiology for Radiographers/Radiological Technologists United States of America

- RTC on Assessment of Body Composition, including Analysis of Deuterium Enrichment by Fourier Transform Infrared Spectrometer (FTIR) with Quality Assurance (QA) Albania
- IAEA/RCA RTC on the Use of Isotope Techniques for Groundwater Dating Australia
- RTC on Training and Certification on Radiotracers and Sealed Sources Applications France
- RTC on Safe Operation of Gamma and E-beam Facilities for Radiation Processing Serbia
- RCA RTC on Digital Industrial Radiography and industrial Computed Tomography Malaysia
- RTC on Capacity Building in Computed Tomography (CT) for NDT in Member States India
- RTC on Radiation Processed Advance Materials for Health Care, Agricultural and Environmental Applications Chile
- Regional (AFRA) Training Course on 2nd AFRA Research Reactor School Morocco
- RTC on Dosimetry at Electron Beam Facilities Russian Federation
- Training for Sealed Sources Applications in Industry Enhanced Gamma Scanning of Industrial Process
 Columns

Peru

 TC Regional Training to Review Dosimetry Inter-comparison Results and establish Quality Control in Industrial Irradiators Argentina

Nuclear Knowledge Development and Management

- IAEA/KAERI Training Course Using Simulators 2017 Republic of Korea
- Nuclear Law Institute Austria
- RTC on Hybrid Imaging and Therapeutic Nuclear Medicine Technologies and its Applications in Thyroid Conditions including Liver and Prostate Cancer Theragnostic Pakistan
- Third RTC on the Development of e-Learning Courses for Teachers Costa Rica
- RTC on the Nuclear and Nuclear Related Techniques for Early and Rapid Detection and Differentiation of the Middle East Respiratory Syndrome in Camels Austria
- 2017 WNU Summer Institute Sweden
- International School of Nuclear Law France
- Regional (AFRA) Training Course on Capacity Building on Technical Project Management Life Cycle Austria
- TC RTC on Chemical and Structural Characterization of Cultural Heritage Objects by SEM and XRD Mexico
- KOICA-IAEA-KAERI Joint Training Program on Fundamentals of Radioisotopes and Radiation Technology Republic of Korea
- RTC on Advanced Methods in Positive Matrix Factorization (PMF) and Potential Source Contribution Functions (PSCF)
 Portugal

- Train-the-Trainers RTC for Radiation Protection Officers (for English-speaking countries) Ghana
- TC Training Train-the-Trainers RTC for Radiation Protection Officers (for French-speaking Countries)
 Côte d'Ivoire
- TC Training on IAEA Model for Analysis of Energy Demand (MAED) Austria

Safety and Security

- RTC on Individual Monitoring Internal Radiation Sources (IMIRS) Austria
- RTC on Radiation Protection Safety in Nuclear Medicine Zambia
- RTC on Organization and Competence of the Regulatory Body Lebanon
- Interregional Training Course on Environmental Impact Assessment (EIA) for Decommissioning and Environmental Remediation (D&ER) Projects United Kingdom
- 3rd School for Drafting Regulations in Asia Pacific Region Austria
- RTC on Medical Preparedness and Response to Radiation Emergencies Kuwait
- RTC on Effective and Sustainable Regulatory Control of Radiation Sources Jordan
- RTC on Radiation Protection in Fluoroscopy Guided Interventional Procedures (in Russian) Azerbaijan
- Regulatory Oversight of Human and Organizational Factors (HOF) at Nuclear Installations Albania
- Post-Graduate Educational Training Course on Radiation Protection and the Safety of Radiation Sources (PGEC)
 - Belarus
- RTC on National Register for Radiation Sources including Regulatory Authority Information System RAIS 3.4 Web
 - Trinidad and Tobago
- School for Drafting Regulations on Radiation Safety Austria
- Training Course on Radiation Protection and Safety of Patients in Nuclear Medicine Niger
- Postgraduate Educational Course in Radiation Protection and the Safety of Radiation
 Sources
 - Malaysia
- RTC on the Preparation, Conduct, and Evaluation of Emergency Exercise Bahrain
- RTC on Enhancing Energy Planning, Nuclear Power Infrastructure Development and Nuclear Safety Regulatory Oversight Austria
- RTC on Regulatory Oversight of Management for Safety and Management System Poland
- RTC on Authorization and Inspection of Radiation Sources Canada
- RTC for Regulators on Authorization and Inspection of Radiation Sources (in French) Cameroon
- RTC (Train the Trainers) for Senior Educators on Radiation Emergency Preparedness and Response Austria

- Regional Train the Trainers Course for Radiation Protection Officers of Medical and Industrial Facilities Thailand
- Regional Train the Trainers Course for Radiation Protection Officers Greece
- RTC No. 3 on Infrastructure Development and Safety Assessment of WWER-type Pressurized Water Reactors with Advanced Safety Features Russian Federation
- RTC on Radioactive Waste Management Morocco
- RTC on Regulatory Enforcement Zimbabwe
- Train the Trainers Course for Radiation Protection Officers of Medical and Industrial Facilities Azerbaijan
- Interregional Training Course on Practical Hands-on Training on the Management of Category 3-5 DSRS Morocco
- Interregional Training Course on Disposal Methodology Indonesia
- Interregional Training Course on Inventory Verification and Record Keeping Cuba
- RTC on Radiation Emergency Management for African Member States Austria
- RTC BRA on Regulatory Control in Radiosurgery Practices Brazil
- RTC for Radiological Assessors in Nuclear or Radiological Emergency Ghana
- RTC on Public Communications in Nuclear and Radiological Emergencies Argentina
- Regional Training Course: School on Radiation Emergency Management Mexico
- RTC on Advanced Medical Response Brazil
- Postgraduate Specialisation Training Course on Radiation Protection and Safety of Radiation Sources Argentina
- DT RTC on Establishment of National Registry of Radiation Sources Using RAIS 3.4 Web. Tunisia
- Regional School of Radiation Emergency Management Austria
- RTC on the Clearance of Radioactive Waste from Regulatory Control Slovakia
- TC RTC on Quality Management Systems for Technical Services in Radiation Safety Cuba
- TC RTC on Regulatory Control of PET–CT Cyclotron Facilities Mexico
- TC RTC on Transport Safety Uruguay
- Regional Advanced Training Course on Medical Preparedness and Response to Radiation Emergencies Republic of Korea
- TC Training on Advanced Detection and Differentiation of AVI Viruses in Light of the Current Outbreaks in the Europe Region Austria
- TC Training on Management Systems, Sarajevo, Bosnia and Herzegovina Bosnia and Herzegovina
- TC RTC on Biodosimetry Costa Rica

- Train-the-Trainers Regional Course on Emergency Consequence Management Saudi Arabia
- RTC for First Time OSART/Independent Oversight Reviewers Brazil
- TC Training on Wildlife (Bats) Capture and Sampling for Surveying Emerging Zoonotic Diseases Sierra Leone
- RTC in the Application, the Use and the Maintenance of Field Survey Instruments Belarus
- TC Training Course on Conditioning of Neutron and Low Gamma Sealed Sources Egypt
- Interregional Training Course on Orphan Sources Search and Recovery Ethiopia
- TC RTC on OSL Systems Cameroon
- Regional School of Radiation Emergency Management Republic of Korea
- RTC in the Application, the Use and the Maintenance of Laboratory Instruments for Differentiation and Quantification of Radioisotopes in Animals and Animal Products Belarus
- RTC on Radiation Protection and Optimization in High Dose Brachytherapy Paraguay
- RTC (AFRA) on Use of Virtual Instrumentation for Developing and Refurbishing of Nuclear Instruments Algeria

Water and the Environment

- RTC on Individual Monitoring Internal Radiation Sources (IMIRS) Austria
- RTC on Radiation Protection Safety in Nuclear Medicine Zambia
- RTC on Organization and Competence of the Regulatory Body Lebanon
- Interregional Training Course on Environmental Impact Assessment (EIA) for Decommissioning and Environmental Remediation (D&ER) Projects United Kingdom
- 3rd School for Drafting Regulations in Asia Pacific Region Austria
- IAEA/RCA RTC on Sampling and Basic Analytical Techniques Indonesia
- RTC on Evaluation of Aquifer Pollution by Means of Hydrochemical and Isotopic Tools Bolivia
- Interregional Training Course on Standard Operating Procedures (SOP) for Deuterium Dilution Technique to Assess Body Composition and Deuterium Dose-to-the Mother Technique to Assess Breastfeeding Morocco
- RTC on Measurements of Carbonate Chemistry Parameters in Seawater in the Context of Ocean Acidification
 - Ghana
- RTC on the Theory and Practical Application of RESRAD-BIOTA and other Codes in the RESRAD Family for the Determination of Dose, Risk and Authorized Limits United States of America
- Advanced RTC on Measurement of Naturally Occurring Radionuclides in Environmental and NORM Samples by Gamma-ray Spectrometry Germany

- Support to the Training Workshop on Quality Assurance for Nuclear Spectrometry Austria
- TC Training on Method Validation, Quality Assurance and Quality Control in Alpha-particle and Gamma-ray Spectrometry United Republic of Tanzania
- TC Training on the Role of Isotopes in Integrated Water Resources Management Morocco
- RTC on Strengthening Regional Capacities for Marine Risk Assessment Using Nuclear and Related Techniques Senegal
- TC Training Course No 3 on the Modalities and Rules of Site Remediation Programme Management Russian Federation

Table A35. Agency corporate social media accounts

Facebook English https://www.facebook.com/iaeaorg/

Arabic https://www.facebook.com/IAEAarabic

French https://www.facebook.com/aieaorg

Spanish https://www.facebook.com/oieaorg

Russian https://www.facebook.com/magateorg/

Twitter http://twitter.com/iaeaorg

Instagram http://instagram.com/iaeaorg

Youtube http://www.youtube.com/user/IAEAvideo

| 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 | 2 | 1 | | | | 1 | | | 4 |
| Colombia | | 1 | | | | | | | 1 |
| Czech Republic | 3 | 3 | | | | | 4 | 2 | 12 |
| Democratic Republic of the Congo | | 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 | | | | | | 1 | 2 |
| Germany | 24 | 13 | | 1 | 1 | 1 | 24 | 6 | 70 |
| Ghana | | 1 | | | | | | | 1 |
| Greece | | 1 | | | | | | | 1 |
| Hungary | 2 | 2 | | | | | 2 | | 6 |
| India | 8 | | | 2 | | | 2 | | 12 |
| Indonesia | | 3 | | 2 | | | 1 | 1 | 7 |
| Iran, Islamic Republic of | 4 | 6 | 2 | 2 | | 3 | 1 | 3 | 21 |
| Iraq | | | | | | | 1 | | 1 |
| Israel | | 1 | | | | | | | 1 |
| Italy | 5 | 6 | | | 2 | | 6 | 3 | 22 |
| Jamaica | | 1 | | | | | | | 1 |
| Japan | 63 | 20 | 2 | 8 | 6 | 3 | 8 | 15 | 125 |
| Jordan | | 1 | | | | | | 1 | 2 |
| Kazakhstan | 1 | 4 | | 2 | | | 6 | | 13 |
| Korea, Republic of | 32 | 3 | | 1 | | | 3 | 7 | 46 |

Table A36(a). Number and types of facilities under Agency safeguards by State during 2017

| Latvia | | 1 | | | | | | 1 |
|---|----|---|---|---|---|---|---|----|
| Libya | | 1 | | | | | 1 | 2 |
| Lithuania | 1 | | | | | 3 | | 4 |
| Malaysia | | 1 | | | | | | 1 |
| Mexico | 2 | 1 | 1 | | | 1 | | 5 |
| Morocco | | 1 | | | | | | 1 |
| Netherlands | 2 | 3 | | | 1 | 2 | 1 | 9 |
| Nigeria | | 1 | | | | | | 1 |
| Norway | | 2 | | | | | 1 | 3 |
| Pakistan | 6 | 2 | | | | | | 8 |
| 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 | 8 | | | 1 | | 6 | 1 | 16 |
| Sweden | 12 | 1 | 1 | 1 | | 2 | | 17 |
| Switzerland | 5 | 3 | | | | 2 | 3 | 13 |
| Syrian Arab Republic | | 1 | | | | | | 1 |
| Tajikistan | | 1 | | | | | | 1 |
| Thailand | | 3 | | | | | | 3 |
| Turkey | | 2 | | 1 | | | | 3 |
| Ukraine | 21 | 2 | | 1 | | 8 | 5 | 37 |
| United Arab Emirates | 4 | | | | | | | 4 |
| United Kingdom | | | | | 1 | 2 | | 3 |
| United States of America | | | | | | 1 | | 1 |
| Uzbekistan | | 2 | | | | | | 2 |
| Venezuela, Bolivarian Republic of | | 1 | | | | | | 1 |
| Viet Nam | | 1 | | | | | | 1 |
| viet Indill | | 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 15 facilities in Taiwan, China.

| 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, Republic of | 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' N.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 |
| | HTR-PM | Rongcheng, Shandong Province |
| Czech Republic | NPP Dukovany (Edu-1) | Dukovany |
| | NPP Dukovany (Edu-2) | Dukovany |
| | NPP Temelin | Temelin |
| Finland | Hanhikivi-I | Pyhaejoki |
| | Loviisa NPP | Loviisa |

Table A36(b). Facilities under Agency safeguards or containing safeguarded nuclear material during 2017

| State ^a | Name of facility | Location |
|--------------------|----------------------------|-----------------------------|
| | 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 |
| | KAPS 3 & 4 | Surat, Gujrat |
| | KKNPP | Kudankulam, Tamil Nadu |
| | NAPS 1 & 2 | Bulandshahar, Uttar Pradesh |
| | RAPS 1 & 2 | Rawatbhata, Rajasthan |
| | RAPS 3 & 4 | Rawatbhata, Rajasthan |

| State ^a | Name of facility | Location |
|------------------------------|-----------------------------|-------------------------------|
| | RAPS 5 & 6 | Rawatbhata, Rajasthan |
| | TAPS | Tarapur, Maharashtra |
| Iran, Islamic Republic of | Bushehr NPP | Bushehr |
| | Bushehr NPP | Bushehr |
| | Bushehr NPP | Bushehr |
| | 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 |
| | Ikata-2 | Nishiuwa-Gun, Ehime-Ken |
| | Ikata-3 | Nishiuwa-Gun, Ehime-Ken |

| State ^a | Name of facility | Location |
|--------------------|------------------|------------------------------|
| | Јоуо | 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 |
| | Takahama-4 | Ohi-Gun, Fukui-Ken |
| | Tokai | Tokai-Mura, Ibaraki-Ken |
| | Tokai-2 | Tokai-Mura, Ibaraki-Ken |
| | Tomari-1 | Furuu-Gun, Hokkaido |

| State ^a | Name of facility | Location |
|--------------------|------------------|------------------------|
| | 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 |
| | Shin Kori-5 | Pusan |
| | Shin Kori-6 | Pusan |
| | Shin Wolsong-1 | Kyongju |
| | Shin Wolsong-2 | Kyongju |
| | Wolsong-1 | Kyongju |
| | Wolsong-2 | Kyongju |

| State ^a | Name of facility | Location |
|--------------------|------------------------------|----------------------------|
| | 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 |
| | Kanupp-2 | 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 | Krško (NEK) | Krško |
| South Africa | Koeberg Unit I | Cape Town |
| | Koeberg Unit II | Cape Town |
| Spain | Asco 1 | Asco |
| | Asco 2 | Asco |
| | 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 |
| | CN Trillo-1 | Trillo |
| | CN Vandellos-2 | Vandellos |
| Sweden | Barsebaeck Unit 1 | Loeddekoepinge |

| State ^a | Name of facility | Location |
|--------------------|-----------------------|-------------------|
| | 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 |
| | 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 |

| State ^a | Name of facility | Location | |
|-----------------------|--------------------------------|--------------------------------|--|
| | Zaporozhe 5 | Energodar | |
| | Zaporozhe 6 | Energodar | |
| United Arab Emirates | BNPP-1 | Barakah | |
| | BNPP-2 | Barakah | |
| | BNPP-3 | Barakah | |
| | BNPP-4 | Barakah | |
| Research reactors and | critical 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 | Iperó, São Paolo | |
| | CDTN/IRP-R1 Reactor | Belo Horizonte | |
| | IEN/Argonauta Reactor | Rio de Janeiro | |
| | IPEN/IEA-R1 | São Paulo | |
| | IPEN/MB01 Critical Assembly | São Paulo | |
| | LABGENE | Iperó | |
| Bulgaria | IRT-2000 | Sofia | |
| Canada | Biology, Chemistry, Physics | Chalk River, Ontario | |
| | DIF | Chalk River, Ontario | |
| | Ecole Polytechnique | Montreal, Quebec | |
| | McMaster Nuclear Reactor | Hamilton, Ontario | |

| State ^a | Name of facility | Location |
|-------------------------------------|---------------------------------|---------------------------|
| | 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 |
| | KFA-FRJ2 | Juelich |
| | Labor-ST | Zittau |
| | SUR-100 FHU | Ulm |
| | SUR-100 Hannover | Hannover |
| | SUR-100 Stuttgart | Stuttgart |
| | SUR100-RWTH | Aachen |
| | TRIGA Mainz | Mainz |
| Ghana | GHARR-1 Ghana Research React. 1 | Legon-Accra |
| Greece | GRR-1 | Attikis |
| Hungary | Budapest Research Reactor | Budapest |

| State ^a | Name of facility | Location |
|---------------------------|-------------------------------|----------------------------|
| | 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 |
| | KHRR | Arak |
| | LWCR | Tehran |
| | 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 |
| | 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 |

| State ^a | Name of facility | Location |
|--------------------|---------------------------|--------------------------------|
| | 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 Metropol. 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 |
| 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-Świerk |
| | Maria | Otwock-Świerk |
| Portugal | IST (CTN) RPI | Sacavem |
| Romania | IFIN-HH | Magurele |
| | TRIGA Research & MTR | Pitești-Mioveni |
| Serbia | RA-RB | Vinča |
| Slovenia | TRIGA II | Ljubljana |
| South Africa | Safari-I Research Reactor | Pelindaba |

| State ^a | Name of facility | Location |
|--------------------------------------|----------------------------------|-------------------------------------|
| 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 | Çekmece 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 |
| | UF ₆ Conversion Plant | Pilcaniyeu |
| | UO ₂ Conversion Plant | Cordoba |
| | Uranium Powder Production Fac. | Polo Cientifico, Tecnologico y Inn. |
| Brazil | USEXA | Iperó, São 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 |

| State ^a | Name of facility | Location |
|---------------------------|---------------------------------|--------------------------------|
| | HEU/LEU Conversion Plant | Pelindaba |
| Sweden | RMA | Stenstorp |
| Fuel fabrication plants | 5 | |
| 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 | Resende |
| Canada | Cameco, Port Hope | Port Hope, Ontario |
| | Fuel Eng. Met. Che. Op. | Chalk River, Ontario |
| | Fuel Fabrication Facility | Chalk River, Ontario |
| | BWXT, Peterborough | Peterborough, Ontario |
| | BWXT, Toronto | Toronto, Ontario |
| Chile | United de Metalur, Fisica (UMF) | Santiago, Chile |
| Egypt | FMPP (Fuel Manuf. Pilot Plant) | Inshas |
| | R&D-NFL | Inshas |
| 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 |
| 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 |

| State ^a | Name of facility | Location |
|---------------------------|---------------------------------|------------------------------------|
| Kazakhstan | Fuel Assembly Fabrication Plant | Ust-Kamenogorsk |
| | 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 Region |
| Reprocessing plants | | · · |
| France | AREVA NC-UP2 & UP3 | La Hague |
| Germany | KTE GmbH | 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 |
| | 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 | São Paulo |
| | CTMSP/LEI | Iperó |
| | CTMSP/USIDE | Iperó |
| | FCN-Enrichment Plant | Resende |
| | IAEV/AR/LAS | São 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 |
| 01 | FFEP | 20 km North-East of Qom City |

| State ^a | Name of facility | Location |
|----------------------|--------------------------------------|---------------------------|
| | 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 fac | cilities | |
| 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 |
| 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 |
| | PWMF | Pickering, Ontario |
| | Spent Fuel Canister Storage | Chalk River, Ontario |

| State ^a | Name of facility | Location |
|--------------------|---------------------------------|----------------------------|
| | Waste Storage Facility | Chalk River, Ontario |
| | WUFDSF | Tiverton, Ontario |
| Czech Republic | ISFS Dukovany | Dukovany |
| | ISFS Temelin | Temelin |
| | Radioactive Waste Rep. Richard | Litoměřice |
| | 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 |
| | 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 |

| State ^a | Name of facility | Location |
|---------------------------|-------------------------------|----------------------------|
| | 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 Comune di Ricerca | Ispra |
| | Dep. Avogadro Elementi Irragg | Torino |
| | Essor Storage | Ispra |
| | Lab. Misure Nucleari Perla | Ispra |
| | Nucleco S.p.A. | Rome |
| 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-Taejeon |
| | Uranium Residue Storage Fac. | Kaeri-Taejeon |
| | WLDC | Kyongju |
| Lithuania | Radioactive Waste Management | Vilnius |
| | SNFS-1 | Visaginas |
| | SNFS-2 | Visaginas |
| Mexico | IFSI | Estado de Veracruz |
| Netherlands | COVRA | Vlissingen |
| | HABOG | Vlissingen |

| State ^a | Name of facility | Location |
|-----------------------------|-------------------------------|-----------------------|
| Poland | ZUOP | Otwock-Świerk |
| 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 |
| | 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 | 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 |

| State ^a | Name of facility | Location |
|--------------------|--|---------------------------------|
| Other facilities | | |
| Algeria | AURES I | Birine Nucl. Site (Ain Oussera) |
| Argentina | Alpha Laboratory | Buenos Aires |
| | PPRF | Centro Atomico Ezeiza |
| | Lapep | Centro Atomico Ezeiza |
| | Tripple Altura Laboratory (LTA) | Centro Atomico Ezeiza |
| | Enriched Uranium Recovery Lab (LUE) | Centro Atomico Ezeiza |
| | 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 | Iperó |
| | CTMSP/Lambat | Iperó |
| | IPEN-Nuclear Fuel Centre | São Paulo |
| | IPEN-Reprocessing Project | São Paulo |
| | LADICON | São Paulo |
| Czech Republic | Lab. & Stores, Centr. Anal. Lab. | Řež |
| | UJP | Prague |
| Denmark | Danish Decommiss Hotcell | Roskilde |
| Egypt | Hydrometallurgy Unit | Inshas |
| | Molybdenum Production Unit | Inshas |
| | NCB | Inshas |
| Finland | Encapsulation Plant | Olkiluoto |
| Georgia | 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 |

| State ^a | Name of facility | Location |
|---------------------------|----------------------------------|------------------------------|
| Indonesia | RMI | Serpong |
| Iran, Islamic Republic of | JHL | Tehran |
| | LWSCR | Esfahan |
| | MIX Separation Facility | Tehran |
| 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 |

| State ^a | Name of facility | Location |
|--------------------|---------------------------------|---------------|
| | Nu and Du Metals Plant | Pelindaba |
| Spain | C.A. El Cabril | El Cabril |
| 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 15 facilities in Taiwan, China.

2. Additionally under Agency safeguards there were 584 material balance areas outside facilities in 132 States and in Taiwan, China. These include 55 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.