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IAEA ANNUAL REPORT 2011 Additional Annex Information

Table A19. Coordinated research projects initiated in 2011

Nuclear Power

- Continued Operations beyond 60 Years in Nuclear Power Plants
- Review and Benchmark of Calculation Methods on Piping Wall Thinning Due to Erosion-Corrosion in Nuclear Power Plants

Nuclear Fuel Cycle and Waste Technology

• Evaluation of Conditions for Hydrogen-Induced Degradation of Zirconium Alloys during Fuel Operation and Storage

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

• Assessing Interdependencies between Energy, Water, Land use and Climate Change

Nuclear Science

- Atomic and Molecular Data for State-resolved Modelling of Hydrogen and Helium and Their Isotopes in Fusion Plasma
- Benchmarking of Structural Materials Pre-selected for Advanced Nuclear Reactors
- Data for Erosion and Tritium Retention in Beryllium Plasma-facing Materials
- Development and Preclinical Evaluations of Therapeutic Radiopharmaceuticals Based on Lu-177 and Y-90 Labelled Monoclonal Antibodies and Peptides
- Development of a Reference Database for Particle-Induced Gamma-ray Emission (PIGE) Spectroscopy
- Improvement of Portable Instruments and Analytical Techniques for In Situ Applications
- Investigations on Materials under High Repetition and Intense Fusion Pulses
- Radiation Curing of Composites for Enhancing their Features and Utility in Health Care and Industry
- Utilization of Ion Accelerators for Studying and Modelling of Radiation Induced Defects in Semiconductors and Insulators
- Utilization of the Network of Small Magnetic Confinement Fusion Devices for Mainstream Fusion Research

Food and Agriculture

- Approaches to Improvement of Crop Genotypes with High Water and Nutrient Use Efficiency for Water Scarce Environments
- Climate Proofing of Food Crops: Genetic Improvement for Adaptation to High Temperatures in Drought Prone Areas and Beyond
- Implementation of Nuclear Techniques to Improve Food Traceability
- Soil Quality and Nutrient Management for Sustainable Food Production in Mulch-based Cropping Systems in Sub-Saharan Africa

Human Health

- 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
- Enhancing Capacity for Early Detection and Diagnosis of Breast Cancer through Imaging
- Stable Isotope Techniques to Design Effective Food Fortification Strategies in Settings with High H. Pylori Infection
- Using Nuclear Techniques to Develop and Evaluate Food-Based Strategies to Prevent Micronutrient Deficiencies in Young Children

Radioisotope Production and Radiation Technology

- Accelerator-based Alternatives to Non-HEU production of Mo-99/Tc-99m
- Development and Preclinical Evaluations of Therapeutic Radiopharmaceuticals Based on Lu-177 and Y-90 Labelled Monoclonal Antibodies and Peptides

Table A20. Coordinated research projects completed in 2011

Nuclear Fuel Cycle and Materials Technology

- Behaviour of Cementitious Materials in Long Term Storage and Disposal of Radioactive Waste
- Feasibility Evaluation of the Use of Low Enriched Uranium Fuelled Homogeneous Aqueous Solution Nuclear Reactors for the Production of Short Lived Fission Product Isotopes
- Optimisation of Water Chemistry Technologies and Management to Ensure Reliable Fuel Performance at High Burnup and in Ageing Plants

Nuclear Science

- Heavy Charged-particle Interaction Data for Radiotherapy
- Integrated Approach to Dense Magnetized Plasma Applications in Nuclear Fusion Technology

Food and Agriculture

- Development of Standardised Mass Rearing Systems for Male Anopheles arabiensis Mosquitoes
- Molecular Tools for Quality Improvement in Vegetatively Propagated Crops Including Banana and Cassava
- Veterinary Surveillance of Rift Valley Fever (RVF)

Human Health

- Body Fat and its Relationship with Metabolic Syndrome Indicators in Overweight Pre-Adolescents and Adolescents
- Doctoral CRP on Clinical and Experimental Studies to Improve Radiotherapy Outcome in AIDS Cancer Patients
- Zinc Nutrition during Early Life

Radioisotope Production and Radiation Technology

- Development of Novel Adsorbents and Membranes by Radiation-Induced Grafting for Selective Separation Purposes
- Evaluation and Validation of Radioisotopes Generators-Based Radiotracer for Industrial Applications

Water Resources

• Isotopic Age and Composition of Stream Flow as Indicators of Groundwater Sustainability

Table A21. Publications issued in 2011

Nuclear Power

- Application of Configuration Management in Nuclear Power Plants
- Climate Change and Nuclear Power 011
- Country Nuclear Power Profiles: 2011 Edition
- Decommissioning of Small Medical, Industrial and Research Facilities: A Simplified Stepwise Approach IAEA Nuclear Energy Series No. NW-T-2.3
- Design Lessons Drawn from the Decommissioning of Nuclear Facilities IAEA-TECDOC-1657
- Evaluation of Human Resource Needs for a New Nuclear Power Plant: Armenian Case Study IAEA-TECDOC-1656
- Good Practices for Water Quality Management in Research Reactors and Spent Fuel Storage Facilities IAEA Nuclear Energy Series No. NP-T-5.2
- Integrated Nuclear Infrastructure Review Missions Rev. 1
- International Status and Prospects of Nuclear Power: 2010 Edition
- Introduction to the Use of the INPRO Methodology in a Nuclear Energy System Assessment IAEA Nuclear Energy Series No. NP-T-1.12
- Nuclear Energy General Objectives IAEA Nuclear Energy Series No. NG-O
- Nuclear Power Newsletter Vol. 7, No. 4, December 2010; Vol. 8, Nos 1 and, March and June 2011
- Nuclear Power Reactors in the World: 2011 Edition
- Operating Experience with Nuclear Power Stations in Member States in 2010: 2011 Edition
- Opportunities and Challenges for Water Cooled Reactors in the 21st Century: Proceedings of an International Conference, Vienna, Austria, 27–30 October 2009
- Optimization of Water Chemistry to Ensure Reliable Water Reactor Fuel Performance at High Burnup and in Ageing Plant (FUWAC) IAEA-TECDOC-1666
- Power Uprate in Nuclear Power Plants: Guidelines and Experience IAEA Nuclear Energy Series No. NP-T-3.9
- Radioactive Waste Management Objectives IAEA Nuclear Energy Series No. NW-O
- Redevelopment and Reuse of Nuclear Facilities and Sites: Case Histories and Lessons Learned IAEA Nuclear Energy Series No. NW-T-2.2
- Stakeholder Involvement Throughout the Life Cycle of Nuclear Facilities IAEA Nuclear Energy Series No. NG-T-1.4
- Status and Trends of Nuclear Fuels Technology for Sodium Cooled Fast Reactors IAEA Nuclear Energy Series No. NF-T-4.1
- Stress Corrosion Cracking in Light Water Reactors: Good Practices and Lessons Learned IAEA Nuclear Energy Series No. NP-T-3.13
- The Management System for the Development of Disposal Facilities for Radioactive Waste IAEA Nuclear Energy Series No. NW-T-1.2

Nuclear Fuel Cycle and Materials Technology

- Impact of High Burnup Uranium Oxide and Mixed Uranium-Plutonium Oxide Water Reactor Fuel on Spent Fuel IAEA Nuclear Energy Series No. NF-T-3.8
- Research Reactor Application for Materials under High Neutron Fluence IAEA-TECDOC-1659
- Selection and Use of Performance Indicators in Decommissioning IAEA Nuclear Energy Series No. NW-T-2.1

• Status of Developments in the Back End of the Fast Reactor Fuel Cycle — IAEA Nuclear Energy Series No. NF-T-4.2

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

- Comparative Analysis of Methods and Tools for Nuclear Knowledge Preservation IAEA Nuclear Energy Series No. NG-T-6.7
- Energy, Electricity and Nuclear Power Estimates for the Period up to 2050: 2011 Edition
- Status and Trends in Nuclear Education IAEA Nuclear Energy Series No. NG-T-6.1
- Workforce Planning for New Nuclear Power Programmes Workforce Planning for New Nuclear Power Programmes IAEA Nuclear Energy Series No. NG-T-3.10

Nuclear Science

• Non-Destructive Testing: Sample Questions for Conduct of Examinations at Levels 1 and 2 — Training Course Series No. 45

Food and Agriculture

- Animal Production and Health Newsletter Nos 53 and 54, January and July 2011
- Food and Environmental Protection Newsletter Vol. 14, Nos 1 and 2, January and July 2011
- Impact of Soil Conservation Measures on Erosion Control and Soil Quality —IAEA- TECDOC-1665
- Insect Pest Control Newsletter Nos 76 and 77, January and July 2011
- Physical Mapping Technologies for the Identification and Characterization of Mutated Genes Contributing to Crop IAEA- TECDOC- 1664
- Plant Breeding and Genetics Newsletter Nos 26 and 27, January and July 2011
- Plant Mutation Reports Vol. 2, No. 3, March 2011
- Soils Newsletter Vol. 34, No. 1, July 2011

Human Health

- Advances in Radiation Oncology, Proceedings of an International Conference held in Vienna, Austria, 27– 29 April 2009
- Atlas of Bone Scintigraphy in the Developing Paediatric Skeleton: The Normal Skeleton Variants and Pitfalls IAEA Human Health Series No. 16
- Clinical Training of Medical Physicists Specializing in Nuclear Medicine Training Course Series No. 50
- Dual Energy X Ray Absorptiometry for Bone Mineral Density and Body Composition Assessment IAEA Human Health Series No. 15
- Implementation of the International Code of Practice on Dosimetry in Diagnostic Radiology (TRS 457): Review of Test — IAEA Human Health Reports No. 4
- Inequity in Cancer Care: A Global Perspective IAEA Human Health Reports No. 3
- Introduction to Body Composition Assessment Using the Deuterium Dilution Technique with Analysis of Saliva Samples by Fourier Transform Infrared Spectrometry IAEA Human Health Series No. 12
- Introduction to Body Composition Assessment Using the Deuterium Dilution Technique with Analysis of Urine Samples IAEA Human Health Series No. 13
- On-site Visits to Radiotherapy Centres: Medical Physics Procedures Quality Assurance Team for Radiation Oncology (QUATRO) IAEA-TECDOC- 1543 (CD-ROM)
- Planning National Radiotherapy Services: A Practical Tool IAEA Human Health Series No. 14
- Quality Assurance Programme for Digital Mammography IAEA Human Health Series No. 17
- SSDL Newsletter No. 59, April 2011

• Status of Computed Tomography Dosimetry for Wide Cone Beam Scanners — IAEA Human Health Reports No. 5

Water Resources

- Eddy Current Testing at Level 2: Manual for the Syllabi Contained in IAEA-TECDOC-628.Rev. 2 Training Course Series No. 48
- Radiotracer Applications in Wastewater Treatment Plants Training Course Series No. 49

Environment

- Analytical Methodology for the Determination of Radium Isotopes in Environmental Samples
- Certified Reference Materials for Radioactivity Measurements in Environmental Samples of Soil and Water: IAEA-444 and IAEA-445 IAEA Analytical Quality in Nuclear Applications Series No. 21
- Worldwide Proficiency Test: Determination of Minor and Trace Elements in Grass Mixture IAEA Analytical Quality in Nuclear Applications Series No. 20
- X Ray Fluorescence in the IAEA and its Member States Newsletter No. 20, December 2011

Radioisotope Production and Radiation Technology

- Nuclear Data Newsletter Issue Nos 51 and 52, May and November 2011
- Nuclear Desalination Newsletter No. 3, September 2011
- Nuclear Techniques for Cultural Heritage Research IAEA Radiation Technology Series No. 2
- Use of Mathematical Modelling in Electron Beam Processing: A Guidebook IAEA Radiation Technology Series No. 1
- Water and Environment News Nos. 28 and 29, April and September 2011

Incident and Emergency Preparedness and Response

- Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency IAEA Safety Standards Series No. GSG-2
- Cytogenetic Dosimetry: Applications in Preparedness for and Response to Radiation Emergencies
- Earthquake Preparedness and Response for Nuclear Power Plants Safety Reports Series No. 66
- Generic Procedures for Response to a Nuclear or Radiological Emergency at Research Reactors EPR-Research Reactor 2011
- Generic Procedures for Response to a Nuclear or Radiological Emergency at Triga Research Reactors EPR-Triga Research Reactor 2011
- IAEA Response and Assistance Network: Incident and Emergency Centre EPR-RANET 2010
- Manual for IRS Coding, Joint IAEA/NEA International Reporting System for Operating Experience IAEA Services Series No. 20

Safety of Nuclear Installations

- A Framework for an Integrated Risk Informed Decision Making Process INSAG Series No. 20
- Challenges Faced by Technical and Scientific Support Organizations in Enhancing Nuclear Safety and Security, Proceedings of an International Conference, Tokyo, Japan, 25–29 October 2010
- Chemistry Programme for Water Cooled Nuclear Power Plants IAEA Safety Standards Series No. SSG-13
- Integrated Nuclear Infrastructure Review Missions— Rev. 1
- Mitigation of Hydrogen Hazards in Severe Accidents in Nuclear Power Plants IAEA-TECDOC-1661
- Non-linear Response to a Type of Seismic Input Motion IAEA-TECDOC-1655

- NS Update Issue No. 15, February 2011
- Preparing and Conducting Review Missions of Instrumentation and Control Systems in Nuclear Power Plants IAEA-TECDOC-1662
- Safety of Nuclear Power Plants: Commissioning and Operation IAEA Safety Standards Series No. SSR-2/2

Radiation and Transport Safety

- Control and Management of Radioactive Material Inadvertently Incorporated into Scrap Metal, Proceedings of an International Conference Tarragona, Spain, 23–27 February 2009
- Exposure of the Public from Large Deposits of Mineral Residues IAEA-TECDOC-1660
- National Strategy for Regaining Control over Orphan Sources and Improving Control over Vulnerable Sources IAEA Safety Standards Series No. SSG-19
- Naturally Occurring Radioactive Material (NORM VI), Proceedings of an International Symposium held in Marrakech, Morocco, 22–26 March 2010
- Radiation Protection and NORM Residue Management in the Production of Rare Earths from Thorium Containing Minerals Safety Reports Series No. 68
- Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards Interim Edition IAEA Safety Standards Series No. GSR Part 3 (Interim)
- Radiation Safety in Industrial Radiography IAEA Safety Standards Series No. SSG-11
- Radioactive Particles in the Environment: Sources, Particle Characterization and Analytical Techniques IAEA-TECDOC-1663

Management of Radioactive Waste

- Disposal of Radioactive Waste IAEA Safety Standards Series No. SSR-5
- Geological Disposal Facilities for Radioactive Waste IAEA Safety Standards Series No. SSG-14
- Viability of Sharing Facilities for the Disposal of Spent Fuel and Nuclear Waste IAEA-TECDOC-1658

Nuclear Security

- Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control
 — IAEA Nuclear Security Series No. 15
- Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities (INFCIRC/225/Revision 5) IAEA Nuclear Security Series No. 13
- Nuclear Security Recommendations on Radioactive Material and Associated Facilities IAEA Nuclear Security Series No. 14
- The International Legal Framework for Nuclear Security IAEA International Law Series No. 4

Table A22. Training courses, seminars and workshops in 2011

Nuclear Power

- Long-range Nuclear Energy Strategies USA
- National Training Course on Integrated Management Systems of NPPs under TC Project Vietnam
- National Training Course on Nuclear Waste Management and the NEWMDB China
- National Training Course on the QA System for NDT Related to NPP Inspection Malaysia
- On-line Maintenance, Automated Testing and Equipment and Process Condition Monitoring USA
- Plant Life Management Model and Ageing Management for Long Term Operation Hungary
- Regional Training Course on Assuring Safety Assessment throughout the NPP Project Philippines
- Regional Training Course on Transition to Integrated Management System (IMS) Approach Supporting the Development of SSC Bangladesh

Nuclear Fuel Cycle and Materials Technologies

- Nuclear Fuel Management and Licensing, Part 3 Romania
- Radiation Protection, Safety and Security in Uranium Exploration for Workers Uruguay
- Remediation Planning in Uranium Mining Gabon
- Uranium Recovery from Phosphates and Phosphoric Acid Morocco

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

- Developing National Scenarios for Long Term Supply of Energy and Water Headquarters
- Developing Regional Electricity Power Plans Using MESSAGE Senegal
- Electricity Sector Analysis Using an IAEA Tool WASP Algeria
- Energy Balances Compilation Using Energy Balance Studio Zimbabwe
- ETC on Leadership and Management for Introducing and Expanding Nuclear Power Programme France
- Executive Programme for Nuclear Power Management France
- Grid Issues and Siting of a New Nuclear Power Plant Ghana

- ICT Materials (Advanced) Tunisia
- ICT Teaching Materials in the Field of Human Nutrition Senegal
- Integration of National Scenarios on Energy and Water into a Regional Picture Headquarters
- Interregional Training Course on Technical Aspects for Nuclear Power Introduction Republic of Korea
- Leadership and Management France
- Leadership and Management for Introducing and Expanding Nuclear Power Programmes USA
- Leadership and Management of Nuclear Power Programmes USA
- MAED

Cameroon

- Management Systems and Development of the Safety Culture USA
- Managers of Telecentres Sudan
- MESSAGE (F) Mali
- National Training Course on Evaluating External Cost of Health and Environmental Impacts of Nuclear Power Malaysia
- NPP Pre-construction and Construction: Construction Technology and Management Nigeria
- NYC on Model for Indicators for Sustainable Energy Development (ISED) in Malaysia Malaysia
- Overview of the Basic Principles Governing the Safety of Nuclear Installations Headquarters
- Regional Training Course on Financial Evaluation of Future Electricity Projects Using FINPLAN Model Headquarters
- Regional Training Course on Management Systems and Development of the Safety Culture USA
- Technical Aspects for Nuclear Power Introduction Republic of Korea
- The Use of ICT Teaching Materials in the Water Resources Management Algeria

Nuclear Science

- Advanced Level Maintenance of Siemens ECam Gamma Cameras Madagascar
- Advanced Maintenance and Repair of MEDISO Spirit Gamma Cameras Seibersdorf
- Advanced Uncertainties Calculations and Calibration of Instruments United Republic of Tanzania

- Advanced Utilization of Nuclear Techniques in Archaeology and Material Sciences Headquarters
- Alpha, Gamma and X Ray Spectrometry Angola
- Innovation, Technology Transfer and Successful Technology Licensing Headquarters
- Maintenance and Troubleshooting of Dionex Ion Chromatographs Ethiopia
- Maintenance of Industrial X Ray Machines Colombia
- QA/QC Aspects of Nuclear Instruments Developed Using FPGA Technology Bangladesh
- Regional Training Course on Calibration of Working Tools Applying Reference Equipment Mexico
- Regional Training Course on LabView Tools for Data Transfer, Movement Control and Image Treatment Brazil, Cuba
- Semiconductor Detectors Algeria
- Software Validation Procedures and Methodology Mexico
- Switch Mode Power Supplies (SMPS) Democratic Republic of the Congo
- Testing and Validation Procedures of Nuclear Instruments Software Using LabView Bangladesh
- The Management of Nuclear Power Projects Algeria
- X Ray Fluorescence and Other Analytical Techniques in Cultural Heritage United Arab Emirates

Food and Agriculture

- Advanced Regional Training Course on Bioassays and Bioindicators Chile
- Basic Epidemiology and the Surveillance of Important Livestock Diseases Bolivia
- Diagnostic Data (FE2) Eritrea
- Epidemiological Surveillance Targeting PPR and CBPP Zambia
- Epidemiology of Transboundary Animal Diseases Eritrea
- Participatory Breeding, Farmers' Rights, and Seeds and Planting Material Exchange Paraguay
- QA/QC Control in Diagnostic Laboratory Practice Seibersdorf
- Quality Evaluation of Solanaceous Food Crops Hungary

- QuEChERS and LC-MS Peru
- RCA/RTC on Train the Trainer Course for Trainers for Quarantine Inspectors Malaysia
- Seeds and Planting Material Exchange in Africa and the World Cameroon
- SIT
 Senegal
- Tissue Culture and Virus Isolation Eritrea
- Use of Isotopic Techniques to Study Carbon and Nitrogen Dynamics and Modelling Brazil
- Use of Molecular Techniques for the Evaluation of Mutants Venezuela
- Water Use Efficiency of High-value Crops Mauritius

Human Health

- Acceptance Test of Gamma Cameras Seibersdorf
- Advanced Treatment Planning Italy
- Cardiology, Nephrology and Radiopharmacy Algeria
- Commissioning of LINACS Nigeria
- Evidence-based Radiation Oncology Russian Federation
- Evidence-based Radiation Oncology in Gynaecological Malignancies Sudan
- Evidence-based Radiation Oncology of Common Cancers Georgia
- IAEA/EANM Cardiovascular Course Headquarters
- IAEA National Workshop to Train Radiation Technology Trainers (RTTs) Israel
- Internal Dosimetry Algeria
- Medical Physics for Nuclear Medicine United Arab Emirates
- Modern Radiotherapy and Therapeutic Radiological Physics Sri Lanka
- Mold Room for Radiotherapy Technicians
 Nicaragua
- Multidisciplinary Management of Cervical Cancer Panama

- Multidisciplinary Management of Prostate Cancer Honduras
- Neuroimaging Headquarters
- Neuro-Imaging, Infection and Inflammation Algeria
- New Tools in Drug Resistance and Drug Resistance Troubleshooting South Africa
- Nuclear Cardiology Italy
- Nuclear Cardiology, Second Edition Italy
- Nuclear Cardiology, Targeted Therapy and Infection Mauritius
- Paediatric Headquarters
- Paediatric Radiation Oncology Tunisia
- Performing Quality Control and Preventive Maintenance of a Dual-head Gamma-camera Seibersdorf
- PET/CT Headquarters
- PET/CT and Molecular Nuclear Medicine Headquarters
- PET/CT in Oncology Headquarters
- PET/CT in Oncology (Advanced) Headquarters
- PET-CT in Oncology Applying ¹⁸F and ⁶⁸Ga Egypt
- Physics for Clinical Radiotherapy Portugal
- Quality Assurance in the Physical and Technical Aspects of Radiotherapy USA
- Radiation Oncology Greece, Headquarters
- Radiotherapy Ukraine
- Radiotherapy Techniques with Emphasis on Imaging and Treatment Planning Saudi Arabia
- Regional Training Course on Improving the Quality of Reporting in Positron Emission Tomography (PET) Australia
- Regional Training Course on Introduction to Image Based Radiotherapy (for Radiation Oncologists and Medical Physicists) Indonesia, Philippines
- Regional Training Course on Medical Physics in Diagnostic Radiology Colombia

- Regional Training Course on Nuclear Cardiology in Myocardial Viability Assessment and Introduction to PET and PET/CT for Advanced Users Philippines
- Regional Training Course on Nuclear Medicine Physics Argentina
- Regional Training Course on QA in Radiotherapy Physics of IMRT Brazil
- Regional Training Course on Transition from 2D to 3D Conformal Radiotherapy Argentina
- Results Interpretation, Data Handling/Analysis in Infectious Diseases TB and Malaria Mali
- SOP for Isotope Techniques in Infant and Young Child Nutritional Status Botswana
- Tissue Banking Operation: Phase I (Virtual) Argentina
- Train Quality Auditors for Nuclear Medicine Facilities Slovenia
- Use of Nuclear Cardiology in Myocardial Viability Assessment and Introduction to PET and PET/CT Vietnam

Water Resources

- Data Interpretation and Monitoring of Project Progress United Republic of Tanzania
- Isotope Data in River Basin Water Balance Models Headquarters
- Isotope Hydrology Eritrea, Tunisia
- Isotope Hydrology (University Level) Benin

Assessment and Management of Marine and Terrestrial Environments

- Establishment of the Quality Management System United Republic of Tanzania
- Internal Auditing According to ISO 9000 and ISO 17025 Requirements Ghana
- ISO 17025 Standard for Calibration and Testing Laboratories Kenya
- ISO/IEC 17025 Standard and its Application for Testing and Metrology Labs Zimbabwe
- Laboratory Quality System and Metrological Requirements Morocco, Tunisia
- Marine Radioactivity Germany
- Measurement Uncertainty for Testing and Metrology Laboratories Zimbabwe
- Method Validation and Estimation of Measurement Uncertainty Morocco

- Methodologies to Assess Radiological Impact Tajikistan
- Preparation and Use of In-house Reference Materials for QC of Analytical Results Panama
- Quality System for Testing and Metrology Laboratories Algeria, Mauritius
- Radiological Impact to the Environment and the Public Russian Federation
- Radiometric Techniques for ²¹⁰Pb Dating of Coastal Sediments Guatemala
- Receptor Binding Assay for ASP Toxins Kenya
- Regional Training Course on Application of Nuclear Instrument Technology in Identifying Source of LBP in Marine Coastal Environment Thailand
- Regional Training Course on Impact of Oil Spill on Marine Environment Monaco
- Regional Training Course on Sampling and Identifying Toxic Microalgae Costa Rica
- Validation of Microbiological Methods Tunisia

Radioisotope Production and Radiation Technology

- Analysis of Heavy Metals and Established PT Scheme for Food Safety South Africa
- Cultural Heritage Objects Turkey
- Cultural Heritage Protection
 Romania
- Eddy Current Testing Mauritius
- Establishment of Radiation Processing Facilities Hungary
- IAEA Validation and Process Control for Gamma Radiation Processing Hungary
- Method Validation and Measurement Results Uncertainty Estimation Headquarters
- Method Validation and Measurement Uncertainty for Nuclear Analytical Techniques Morocco
- Method Validation, Traceability and Measurement Uncertainty for Chemical Analysis Ethiopia
- National Training Course on NDT on UT Kenya
- National Training Course on Radiographic Testing Level 3 Indonesia
- NDT Level 3, Training, Examination and Certification South Africa

- NDT on Industrial Radiography Kenya
- Quality Control and Quality Management System in Radiopharmacy Uganda
- Regional Examinations to Qualify Personnel to Level I and II in MT and UT Tunisia
- Regional Examinations to Qualify Personnel to Level I and II in PT and RT Tunisia
- Regional Training Course and Demonstration on Upscaling of Radiation Modification of Polymer for Agriculture Application
 China
- Regional Training Course on Advanced Applications of Radiation Processing for Recycling of Polymeric Waste Malaysia
- Regional Training Course on Basic Radiation Processing of Polymer and Recycling of Polymeric Waste by Using Radiation Technology Republic of Korea
- Regional Training Course on Common Core for Level 3, Magnetic Particle Testing (MT) Level 3 and Liquid
 - Brazil
- Regional Training Course on Common Core Radiographic Testing (RT), Level 3 Brazil
- Regional Training Course on Diagnosis of Multi-phase Systems of Petrochemical Plants and Waste Water Treatment Republic of Korea
- Regional Training Course on Gamma Transmission Computed Tomography System and Image Reconstruction for Pipe Inspection Vietnam
- Regional Training Course on Internal Auditing Jordan
- Regional Training Course on Radioactive Particle Tracking Technique for Investigating Process Hydrodynamics India
- Regional Training Course on the Use of ISee and aRTist Software for DIR Image Analysis and Interpretation Malaysia
- Regulatory Aspects of Radiation Processing Technology Egypt
- The Requirements and Implementation of the ISO 15189 Standard Tunisia
- Uncertainty in Measurements Performed at SSDLs and Dosimetry Service Labs Algeria

Safety of Nuclear Installations

- Low Power and Shutdown (LPSD) PSA for Chashma NPP's Unit 1 and 2 Headquarters
- National Training Course on Reactor Thermal Dynamic of PWR and Steam Generator Tube Rupture Vietnam

- Radiation Safety, Licensing and Inspection Sierra Leone
- Reactivity Initiated Accidents (RIAs) Vietnam
- Regional Training Course on Orphan Source Search Philippines
- Regulatory Approaches to Nuclear Safety Germany
- Safety Assessment of NPPs USA
- The Licensing and Inspection of Nuclear Medical Facilities for Regional Inspection Ukraine
- Workshop on Alarm Inhibition in a Nuclear Power Plant Main Control Room Headquarters

Radiation and Transport Safety

- Authorization and Inspection of Radiation Sources Ghana, Tunisia
- Digital Radiology Finland
- General Safety Provisions
 Morocco
- Introduction to Radiation Principles and Radiation Safety Benin
- Introduction to Radiation Principles and Radioprotection Radiation Safety Mauritania, Senegal
- Ionizing Radioactive Sources Senegal
- Licensing and Inspection Uganda
- Licensing and Inspection of Uranium Mining Namibia
- Medical Installations and Biological Research Laboratories Dealing with Radioactivity Peru
- National Training Course on Radiation Safety in Industrial Applications Lebanon
- Occupational Radiation Protection Programmes in Medical and Industrial Applications
 Nicaragua
- PGEC in Radiation Protection Greece
- Post-graduate Educational Course on Radiation Protection Ghana, Malaysia
- Post-graduate Radiation Protection Course in Panama Panama
- Pre-disposal Management of Radioactive Sources Headquarters

- Radiation Protection Morocco, Panama
- Radiation Protection and Optimization in Computed Tomography Peru
- Radiation Protection and Safety of Radiation Sources Argentina, Syrian Arab Republic
- Radiation Protection in Diagnostic Radiology
 Egypt
- Radiation Protection of Patients for Radiographers Algeria, Ghana
- Radiation Protection Officers Lithuania
- Radiation Safety for Custom Officers Gabon
- Radiation Safety Officers in Diagnostic Radiology United Republic of Tanzania
- Regional Training Course on Control of Public Exposure Due to Radioactive Releases to the Environment Jordan
- Regional Training Course on Naturally Occurring Radioactive Material (NORM) United Arab Emirates
- Regional Training Course on Nuclear Safety Argentina
- Regional Training Course on Patient Dose Assessment and Dose Management in Diagnostic and Interventional Radiology Qatar
- Regional Training Course on Public Exposure to NORM As Related to Oil and Gas Industry Headquarters
- Regulators, Radiation Safety Officers and Radiation Workers Mauritius
- Safe Transport of Radioactive Material and on Issues of Denials of Shipment Panama
- Workshop on Safety Assessment as Support to Licensing of Radioactive Waste Management Headquarters

Management of Radioactive Waste

- Advanced Safety Assessment and Dose Calculation Tool Sweden
- Application of Waste/Residue Management and Remediation Technologies Namibia
- Development of Near Surface Disposal Facility South Africa
- Environmental Remediation Kyrgyzstan
- Geological Disposal Czech Republic
- GoldSim Modelling of an NSR Headquarters

- Nuclear Facility USA
- Radioactive Waste Management Principles and Practices
 Nigeria
- Repository Engineering for Disposal of HLW/Spent Fuel in Sedimentary Environment Germany
- Safety Case Development and Safety Assessment Methods for the BDC Ghana
- Site Conditions for Geological Disposal France
- Use of Portable Instrumentation and Laboratory Analyses for NORM Measurements Hungary

Nuclear Security

- Combating Illicit Trafficking in Nuclear and Other Radioactive Material United Republic of Tanzania
- Computer Security at Nuclear Facilities South Africa
- Increasing Nuclear Security through Process Control and Material Accounting China
- Physical Protection Slovenia, Ukraine
- Physical Protection of Nuclear Facilities against Sabotage, Assessing Vulnerability India
- Radiological Crime Scene Management and Introduction to Nuclear Forensics Republic of Korea
- Security of Radioactive Sources Ethiopia

Management of Technical Cooperation for Development

- Cours régional de formation sur la planification et la formulation de projets Algeria
- Innovation, Technology Transfer and Successful Technology Licensing Philippines
- Internal Dosimetry Applied to Nuclear Medicine Cuba
- International School of Nuclear Law France
- Interregional Course on Radioactive Waste Management Germany
- Master of Medical Physics Peru
- Project Planning and Design Course for National Project Counterparts Ghana, Peru
- Seventh WNU Summer Institute United Kingdom
- The International Nuclear Information Systems (INIS) Morocco

Executive Management, Policy Making and Coordination

- First Session of the Nuclear Law Institute Headquarters
- Nuclear Law Institute Headquarters

Emergency Preparedness and Response

- Application of the Requirements (GS-R-2) and Guidance on Developing National Capacity United Arab Emirates
- Exercise Preparation, Conduct and Evaluation Tunisia
- First Responders Uruguay
- First Responders to a Radiological Emergency Botswana, Cameroon
- First Response Azerbaijan
- First Response to a Radiological Emergency Guatemala, Paraguay
- International Nuclear and Radiological Event Scale (INES) Brazil
- Medical Preparedness The Former Yugoslav Republic of Macedonia
- Medical Response to Radiation Emergencies Peru
- Medical Response to Radiation Injuries Uruguay
- Monitoring
 Belarus
- National Training Course for First Responders to a Radiological Emergency Bolivia
- National Training Course on Radiochemical Analysis and Physical Analysis Sri Lanka
- Public Communications in a Nuclear or Radiological Emergency Croatia
- Radiological and Nuclear Emergencies Tunisia
- Regional Training Course on Public Communications in Radiation Emergencies Malaysia
- Response to Nuclear or Radiological Emergencies Sudan
- TRC for Public Information Officers on Communications in a Nuclear Emergency Headquarters

Public web site http://www.iaea.org/

Nuclear Power

Nuclear energy http://www.iaea.org/OurWork/ST/NE/index.html

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

Nuclear power technology development http://www.iaea.org/NuclearPower/Technology/

Nuclear power engineering http://www.iaea.org/NuclearPower/Engineering/

Nuclear energy knowledge resources http://www.iaea.org/inisnkm/nekr/index.html

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

Planning and economic studies http://www.iaea.org/OurWork/ST/NE/Pess/index.shtml

International Nuclear Information System and Nuclear Knowledge Management http://www.iaea.org/inisnkm/

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

Nuclear Fuel Cycle and Materials Technologies

Nuclear fuel cycle and waste technology http://www.iaea.org/OurWork/ST/NE/NEFW/index.html

Integrated Nuclear Fuel Cycle Information System (iNFCIS) http://www-nfcis.iaea.org/

Nuclear Science

Portal for medical related nuclear data http://www-nds.iaea.org/medportal/

Research Reactor Database http://www.iaea.org/worldatom/rrdb/

Information on ageing related operating experience from research reactors around the world (available to research reactor operators) http://www.iaea.org/OurWork/ST/NE/NEFW/rrg_operation.html

Nuclear Applications

Joint FAO/IAEA Programme on Nuclear Techniques in Food and Agriculture http://www-naweb.iaea.org/nafa/index.html

Physical and chemical sciences http://www-naweb.iaea.org/napc/ih/index.html

Food and Agriculture

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

Human Health

Programme of Action for Cancer Therapy (PACT) http://cancer.iaea.org/index.asp

Guidance and educational resources to Member States http://nucleus.iaea.org/apps/HHW/root/content/MedicalPhysics

Distance Assisted Training on-line (DATOL) http://nucleus.iaea.org/apps/HHW/root/content/Technologists/NuclearMedicine/Educationalresources/DistanceA ssistedTrainingforNuclearMedicineTechnologists

Training materials for distance learning http://www-naweb.iaea/nahu/default.asp

Water Resources

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

Environment

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

Incident and Emergency Preparedness and Response

Early Notification and Assistance Conventions (ENAC) web site and the Nuclear Events Web-based System http://www-news.iaea.org/news/

Incidents and emergencies http://www-ns.iaea.org/tech-areas/emergency/

Radiation and Transport Safety

Radiation Safety Information Management System (RASIMS) http://rasims.iaea.org

Radiation safety http://rpop.iaea.org/RPoP/RPoP/Content/index.htm

Radiation, transport and waste safety http://www-ns.iaea.org/home/rtws.asp

Nuclear installation safety http://www-ns.iaea.org/home/nis.htm

Safeguards

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

Management of Technical Cooperation for Development

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

Regional Sites

Africa http://www-tc.iaea.org/tcweb/regionalsites/africa/default.asp Europe http://www-tc.iaea.org/tcweb/regionalsites/europe/default.asp Latin America http://www-tc.iaea.org/tcweb/regionalsites/latinamerica/default.asp IAEA ANNUAL REPORT 2011 Page 22

TCPride http://tcpride.iaea.org/Default.asp

TC country profile http://tcpride.iaea.org/?TCCountryProfile

Standards, Guides and Conventions

International standards, guides and codes http://www.iaea.org/Publications/Standards/index.html

International conventions and agreements http://www.iaea.org/Publications/Documents/Conventions/index.html

Legal Assistance

http://ola.iaea.org/OLA/default.asp

Table A24. Facilities under Agency safeguards or containing safeguarded nuclear material on31 December 2011

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	Armenia NPP	Metsamor
	Armenia NPP 3	Metsamor
Belgium	DOEL 3 NPP	Doel
0	DOEL 4 NPP	Doel
	ELBEL, DOEL 1	Doel
	ELBEL. TIH. 1	Tihange
	Tihange 2 NPP	Tihange
	Tihange 3 NPP	Tihange
Brazil	ADMIRAL ALVA. ALBERTO-(ANGRA2)	ANGRA DOS REIS
Diazin	ADMIRAL ALVA. ALBERTO-(ANGRA3)	ANGRA DOS REIS
	ALM.ALV ALBERTO (ANGRA1)	ANGRA DOS REIS
Bulgaria	NPP Kozloduy 1-2	Kozloduy
Duigaria	NPP Kozloduy 3-4	Kozloduy
	NPP Kozloduy 5-6	Kozloduy
Canada	BRUCE A N. G. S.	TIVERTON, ONTARIO
Callaua	BRUCE B G. S.	TIVERTON, ONTARIO
	DARLINGTON NGD	BOWMANVILLE, ONTARIO
	GENTILLY II	
	PICKERING N.G.S.	GENTILLY, QUEBEC PICKERING, ONTARIO
	POINT LEPREAU	PT. LEPREAU, NEW BRUNSWICK
China		
	QSNPP	Hai Yan, Zhe Jiang Dukovany
Czech Republic	NPP Dukovany 1-2	Dukovany
	NPP Dukovany 3-4	
P' 1 1	NPP Temelin	Temelin
Finland	Loviisa NPP	
	TVOI	Olkiluoto
	TVO II	Olkiluoto
2	TVO III	Olkiluoto
Germany	AVR	Juelich
	HKG-THTR 300	Hamm
	KKW Brokdorf	Brokdorf
	KKW Brunsbuettel	Brunsbuettel
	KKW GR2. 3 & 4	Lubmin
	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

State ^a	Name of Facility	Location
	KKW Obrigheim	Obrigheim
	KKW Philippsburg 1	Philippsburg
	KKW Philippsburg-2	Philippsburg
	KKW Rheinsberg	Rheinsberg
	KKW Unterweser	Unterweser
	KKW Emsland	Lingen(Ems)
	KW Biblis A	Biblis
	KW Biblis B	Biblis
	KW Muelheim-Kaerlich	Muelheim-Kaerlich
	KWL-Lingen	Lingen
	NS "Otto Hahn"	Geesthacht
Hungary	Paks NPP I	Paks
	Paks NPP II	Paks
India	KAPS 1 & 2	SURAT, GUJARAT
	KKNPP	Kudankulam
	RAPS 1&2	RAWATBHATA, RAJASTHAN
	RAPS 3 & 4	RAWATBHATA, RAJASTHAN
	RAPS 5 & 6	Rawatbhata, Rajastan
	TAPS	TARAPUR, Maharashtra State
Iran, Islamic Republic of	BUSHEHR NPP	BUSHEHR , HALILEM
nuii, isianne republie or	IR360	IR360
Italy	Area Disattivazione Caorso	Caorso
Italy	Centrale Latina	Borgo Sabotino
	Centrale Latina Centrale Nucleare di Trino	Trino Vercellese
	Cirene (on load)	Timo vercenese
	So.G.I.N. CN Del Garigliano	Sessa Aurunca(CE)
Ionon	Fuku-I-1	Futaba-gun, Fukushima-ken
Japan	Fuku-I-2	Futaba-gun, Fukushima-ken
	Fuku-I-2 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
	Ikata-1	Nishiuwa-gun, Ehime-ken
	Ikata-2	Nishiuwa-gun, Ehime-ken
	Ikata-3	Nishiuwa-gun, Ehime-ken
	Јоуо	Higashi, Ibaraki-ken
	Kashiwazaki-1	Kashiwazaki-shi, Niigata-ken
	Kashiwazaki-2	Kashiwazaki-shi, Niigata-ken

State ^a	Name of Facility	Location
	Kashiwazaki-3	Kashiwazaki-shi, Niigata-ken
	Kashiwazaki-4	Kashiwazaki-shi, Niigata-ken
	Kashiwazaki-5	Kashiwazaki-shi, Niigata-ken
	Kashiwazaki-6	Kashiwazaki-shi, Niigata-ken
	Kashiwazaki-7	Kashiwazaki-shi, Niigata-ken
	Mihama-1	Mikata-gun, Fukui-ken
	Mihama-2	Mikata-gun, Fukui-ken
	Mihama-3	Mikata-gun, Fukui-ken
	Monju	Tsuruga-shi, Fukui-ken
	Ohi 1&2	Ohi-gun, Fukui-ken
	Ohi 3	Ohi-gun, Fukui-ken
	Ohi 4	Ohi-gun, Fukui-ken
	Ohma	Shimokita-gun, Aomori-prefect.
	Onagawa-1	Oshika-gun, Miyagi-ken
	Onagawa-2	Oshika-gun, Miyagi-ken
	Onagawa-3	Oshika-gun, Miyagi-ken
	Sendai-1	Sendai-shi, Kagoshima-ken
	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
	Tomari-2	Furuu-gun, Hokkaido
	Tomari-3	Furuu-gun, Hokkaido
	Tsuruga-1	Tsuruga-shi, Fukui-ken
	Tsuruga-2	Tsuruga-shi, Fukui-ken
Vazalıhatan	BN-350	Aktau
Kazakhstan Korea, Republic of	Kori-1	Pusan
Korea, Republic of	Kori-2	Pusan
	Kori-3	
	Kori-4	Pusan
	Shin Kori-1	Pusan
		Pusan
	Shin Kori-2	Pusan
	Shin Kori-3	Pusan
	Shin Kori-4	Pusan
	Shin Wolsong-1	Kyongju
	Shin Wolsong-2	Kyongju
	Ulchin-1	Ulchin
	Ulchin-2	Ulchin
	Ulchin-3	Ulchin
	Ulchin-4	Ulchin
	Ulchin-5	Ulchin
	Ulchin-6	Ulchin

State ^a	Name of Facility	Location
	Wolsong-1	Kyongju
	Wolsong-2	Kyongju
	Wolsong-3	Kyongju
	Wolsong-4	Kyongju
	Younggwang-1	Younggwang
	Younggwang-2	Younggwang
	Younggwang-3	Younggwang
	Younggwang-4	Younggwang
	Younggwang-5	Younggwang
	Younggwang-6	Younggwang
Lithuania	Ignalina NPP	Visaginas
Mexico	Central Laguna Verde Unit I	Muni. Al. Luc. Vercruz
	Central Laguna Verde Unit II	Muni. Al. Luc. Veracruz
Netherlands	EPZ. Borssele	Borssele
	N. V. GKN-Dodewaard	Dodewaard
Pakistan	CHASNUPP 2	
	CHASNUPP-1	KUNDIAN, DISTRICT MIANWALI
	KANUPP	KARACHI
Philippines	BNPP	Morong, Bataan
Romania	Cernavoda-3	Cernavoda
	Cernavoda-4	Cernavoda
	CNE Cernavoda 1	Cernavoda
	CNE Cernavoda NPP 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 2	Asco
	Asco NPP 1	Asco
	C.N. Almaraz 1	Almaraz
	C.N. Almaraz 2	Almaraz
	CN Cabrera	Almonacid de Zorita
	CN COFRENTES	Cofrentes
	CN TRILLO 1	Trillo
	CN Vandellos II	Vandellos
	NUCL. S. M. FAR.	Santa Maria de Garona
Sweden	Barsebaeck unit 1	Loeddekoepinge
	Barsebaeck unit 2	Loeddekoepinge
	Forsmark unit 1	Oesthammar
	Forsmark unit 2	Oesthammar
	Forsmark unit 3	Oesthammar
	Oskarshamn unit 1	Oskarshamn
	Oskarshamn unit 2	Oskarshamn
	Oskershamn unit 3	Oskarshamn
	Ringhals unit 1	Ringhals
	Ringhals unit 2	Ringhals
	Ringhals Unit 3	Vaeroebacka
	Ringhals unit 4	Ringhals

State ^a	Name of Facility	Location
Switzerland	KKB BEZNAU-II	BEZNAU DOETTINGEN
	KKB IBEZNAU-I	BEZNAU DOETTINGEN
	KKG-GOESGEN	GOESGEN-DAENIKEN
	KKL-LEIBSTADT	LEIBSTADT
	KKM MUEHLEBERG	MUEHLEBERG
Ukraine	Chernobyl NPP	Chernobyl
	Khmelnitski 1	Neteshin
	Khmelnitski 2	Neteshin
	Rovno 1 & 2	Kuznetsovsk
	Rovno 3	Kuznetsovsk
	Rovno 4	Kuznetsovsk
	STH. Ukraine 1	Yuzhnoukrainsk
	STH. Ukraine 2	Yuzhnoukrainsk
	STH. Ukraine 3	Yuzhnoukrainsk
	Zaporozhe 1	Energodar
	Zaporozhe 2	Energodar
	Zaporozhe 3	Energodar
	Zaporozhe 4	Energodar
	Zaporozhe 5	Energodar
	Zaporozhe 6	Energodar
United Arab Emirates	Braka NPP	United Arab Emirates
Vietnam	Ninh Thuan 1 Plant Unit 1	Phuoc Dinh Comm. Thuan Nam Dt.
	Ninh Thuan 1 Plant Unit 2	Phuoc Dinh Comm. Thuan Nam DT.
	Ninh Thuan 2 Plant Unit 1	Vinh Hai Comm. Ninh Hai Dist.
	Ninh Thuan 2 Plant Unit 2	Vinh Hai Comm. Ninh Hai Dist.
Research reactors and c	ritical assemblies	
Algeria	Es Salam Reactor	Ain Oussera
	NUR Reactor	Draria-BP29 Wilaya de Tipaza
Argentina	ARGENTINE REACTOR 0 (RA-0)	CORDOBA
8		CENTRO ATOMICO
	ARGENTINE REACTOR 1 (RA-1)	CONSTITUYENTES
	ARGENTINE REACTOR 3 (RA-3)	CENTRO ATOMICO EZEIZA
	ARGENTINE REACTOR 4 (RA-4)	ROSARIO
	ARGENTINE REACTOR 4 (RA-4) ARGENTINE REACTOR 6 (RA-6)	ROSARIO CENTRO ATOMICO BARILOCHE
Australia	ARGENTINE REACTOR 6 (RA-6)	CENTRO ATOMICO BARILOCHE
Australia	ARGENTINE REACTOR 6 (RA-6) Argentine Reactor 8 (RA-8)	CENTRO ATOMICO BARILOCHE Pilcaniyeu
Australia	ARGENTINE REACTOR 6 (RA-6) Argentine Reactor 8 (RA-8) HIFAR	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland
	ARGENTINE REACTOR 6 (RA-6) Argentine Reactor 8 (RA-8) HIFAR MOATA	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland
Austria	ARGENTINE REACTOR 6 (RA-6) Argentine Reactor 8 (RA-8) HIFAR MOATA OPAL	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia
Austria Bangladesh	ARGENTINE REACTOR 6 (RA-6) Argentine Reactor 8 (RA-8) HIFAR MOATA OPAL Atom. Oest. Univ.	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna
Austria Bangladesh Belarus	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA
Austria Bangladesh Belarus	ARGENTINE REACTOR 6 (RA-6) Argentine Reactor 8 (RA-8) HIFAR MOATA OPAL Atom. Oest. Univ. ATOMIC ENERG. RES. ESTAB. SOSNY	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Minsk
Austria Bangladesh Belarus	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.SOSNYBR1-CEN	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Minsk Mol
Austria Bangladesh Belarus	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.SOSNYBR1-CENBR2	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Mol Mol
Austria Bangladesh Belarus Belgium	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.SOSNYBR1-CENBR2CEN-VENUS	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Mol MOL
Austria Bangladesh Belarus Belgium	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.SOSNYBR1-CENBR2CEN-VENUSThetis Universiteit Gent	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Mol MOL Gent
Austria Bangladesh Belarus Belgium	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.SOSNYBR1-CENBR2CEN-VENUSThetis Universiteit GentArgonauta Reactor-IEN	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Mol MOL Gent RIO DE JANEIRO
Australia Austria Bangladesh Belarus Belgium Brazil	ARGENTINE REACTOR 6 (RA-6)Argentine Reactor 8 (RA-8)HIFARMOATAOPALAtom. Oest. Univ.ATOMIC ENERG. RES. ESTAB.SOSNYBR1-CENBR2CEN-VENUSThetis Universiteit GentArgonauta Reactor-IENBrazilian Multipurpose Reactor	CENTRO ATOMICO BARILOCHE Pilcaniyeu Lucas Heights, Sutherland Lucas Heights, Sutherland Lucas Heights, NSW, Australia Vienna DHAKA Mol MOL Gent RIO DE JANEIRO Ipero, Sao Paolo

State ^a	Name of Facility	Location
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 DALHOUSIE	HALIFAX, NOVA SCOTIA
	SLOWPOKE KINGSTON	KINGSTON, ONTARIO
	SLOWPOKE SASKATCHEWAN	SASKATOON, SASKATCHEWAN
Chile	LA REINA REACTOR	SANTIAGO
	LO AGUIRRE EXPERIMENTAL REACT.	SANTIAGO
China	HTR-10	Nankou, Beijing
Colombia	IAN-R1 R. REACTOR	BOGOTA
Czech Republic	LR-0	Rez
	LVR-15	Rez
	VR-1	Prague
Dem. Republic of the	VIC-1	
Congo	TRIGA II REACTOR	KINSHASA
Denmark	Danish Decommissioning - DR3	Roskilde
Egypt	ET RR-1	INSHAS
	MPR (MULTI PURPOSE REACTOR)	AEA NUC RES C. near Inshas
Estonia	A.L.A.R.A.	Paldiski
Finland	FiR 1	Espoo
Georgia	Decom. IRT-M	Tbilisi
Germany	AKR-2	Dresden
• •	BER-II	Berlin
	FH-FURTW.	Furtwangen
	FRM	Garching
	FRM II	Garching
	Helmholtz-Zentrum Geesthacht	Geesthacht
	KFA-FRJ2	Juelich
	Labor-ST	Zittau
	SUR100	Hannover
	SUR-100	Stuttgart
	SUR100 FHU	Ulm
	SUR100-RWTH	Aachen
	SUR100-TUB	Berlin
	TRIGA Mainz	Mainz
Ghana	GHARR-1	LEGON-ACCRA
Greece	GRR-1	Attikis
Hungary	Budapest Res. Reactor	Budapest
Thungury	Training Reactor	Budapest
Indonesia	P3TkN	Bandung
11140110514	PPNY	Yogyakarta
	RSG-GAS	Serpong
Iran, Islamic Republic of	HWZPR	ESFAHAN
nan, isianne Kepublie bi	IR-40	
	LWSCR	ESFAHAN
	MNSR TEHRAN RES. REAC.(TRR)	ESFAHAN TEHRAN

State ^a	Name of Facility	Location
Israel	ISRAEL R. R1(IRR-1)	SOREQ
Italy	AGN-201	Palermo
	CEC-Complexe-Essor	Ispra
	CISAM-RTS-1	San Piero a Grado
	CNEN-RB-3	Montecuccolino
	LE.N.A. Pavia	Pavia
	RB-1	Montecuccolino
	TAPIRO-Casaccia	Santa Maria di Galeria
	TRIGA-RC1 Mark II	Santa Maria di Galeria
Jamaica	CNS	KINGSTON
Japan	DCA	Oarai-machi, Ibaraki-ken
k	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
	NSRR	Tokai-mura, Ibaraki-ken
	Rikkyo	Nagasaka, Kanagawa-ken
	TCA	Tokai-mura, Ibaraki-ken
	TODAI	Tokai-mura, Ibaraki-ken
	TTR	Kawasaki-shi, Kanagawa-ken
TT 11 .	VHTRC	Tokai-mura, Ibaraki-ken
Kazakhstan	Kurchatov Test Reactors	Kurchatov
	WWR-K	Almaty
Korea, Republic of	HANARO	Taejon
	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 Swierk
	MARIA	Otwock-Swierk

State ^a	Name of Facility	Location
Portugal	RPI	Sacavem
Romania	IFIN-HH	Magurele
	Triga Res.& 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	WUERENLINGEN
Syrian Arab Republic	MNSR	SYRIA
Tajikistan	Argus Research Reactor	Physical-Tech. Inst., Dushanbe
Thailand	ONRC	Ongkharak, Nakon Nayon
	TRR-1	Bangkok
Turkey	CEKMECE NUC. RES. & TR. CENTRE	ISTANBUL
	ITU-TRR-TRIGA MARK II	ISTANBUL
Ukraine	IR-100 Res. Reactor	Sevastopol
	WWR-M Res. Reactor	Kiev
Uzbekistan	IIN-3M	Tashkent
	WWR-SM	Ulugbek
Venezuela	RV-1 IVIC R. REACTOR	ALTOS DE PIPE
Vietnam	Da Lat Research Reactor	Da Lat, Lam Dong
Conversion plants		
Algeria	Pilot Uranium Conversion Plant	Draria Nuclear Research Center
Argentina	Experimental Dry Conversion	Bariloche
	UF6 PRODUCTION PLANT	PILCANIYEU
	UO2 CONVERSION PLANT	CORDOBA
	Uranium Powder Production Fac.	Las Mesillas, La Rioja Prov.
Brazil	UOC to UF6 Conversion	Ipero, Sao Paulo
Canada	Blind River	Blind River, Ontario
	Port Hope	Port Hope, Ontario
Chile	LAB. EXPERIMENT. DE CONVERSION	SANTIAGO
Iran, Islamic Republic of	UCF	Esfahan
Japan	JCO	Tokai-mura, Ibaraki-ken
	PCDF	Tokai-mura, Ibaraki-ken
Korea, Republic of	DUF4 Conv. Pl.	Taejon
Mexico	FUEL FRBRICATION PILOT PLANT	SALAZAR
Romania	Nat. 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 Site
Argentina	EXP.PL.FUEL MAT.& POWDER MET.	CENTRO ATOMICO CONSTITUYENTES
1 ngenuna	FUEL. FAB. PLANT - FECN	CENTRO ATOMICO EZEIZA
	FUEL, FAD, I LANT - FEUN	CENTRO ATOMICO EZEIZA CENTRO ATOMICO
	RES. REAC.FUEL ELEM. FAB.PLANT	CONSTITUYENTES
	RES.REAC. FUEL FAB. PLANT	CENTRO ATOMICO EZEIZA
Belgium	FBFC Int.	Dessel
	FBFC Int.	Dessel

State ^a	Name of Facility	Location
	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., TORONTO	TORONTO, ONTARIO
	GE, Hitachi PETERBOROUGH	PETERBOROUGH, ONTARIO
Chile	UNIDAD DE METALUR. FISICA(UMF)	SANTIAGO, CHILE
Egypt	FMPP (FUEL MANUF. PILOT PLANT)	INSHAS, 35 KM N/NE FROM CAIRO
	R & D - NFL	Inshas Nuc. Res. Center, Cairo
France	MELOX. MARCOULE	Chusclan
Germany	ADV. NUCLEAR FUELS	Lingen
o viiniunij	Siemens MOX II	Hanau
India	NFC	HYDERABAD
mana	NFC - NU	HYDERABAD
Indonesia	IEBE	Serpong
1140110514	IPEBRR	Serpong
Iran, Islamic Republic of	FMP	Isfahan
nan, isianne Kepublie ol	FUEL FABRICATION LABORATORY	ESFAHAN NUC. TECH. CNTR (ENTC)
Italy	FN-Bosco Marengo	Bosco Marengo
•	GNF-J	Yokosuka-shi, Kanagawa-ken
Japan		
	J-MOX MNF	Oaza Obuchi, Rokkasho-mura 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	Taejon
Romania	SN NFP Subsidiary	Mioveni
South Africa	LEU FUEL FABRICATION PLANT	PELINDABA
	MTR Fuel Fabrication Plant	PELINDABA
Spain	ENUSA Fab. Juzbado	Juzbado
Sweden	Westinghouse Electric	Vaesteras/Finnslaetten
Turkey	NUCLEAR FUEL PILOT PLANT	ISTANBUL
Reprocessing plants		
Egypt	Hydrometallurgy unit	Inshas, Cairo
France	AREVA NC - UP2 et UP3	La Hague
Germany	WAK / VEK	Eggenstein-Leopoldshafen
India	PREFRE	TARAPUR Maharashtra State
Iran, Islamic Republic of	MIX FACILITY	End of North Karegar in Tehran
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
		Tokai-mura, Ibaraki-ken
	SCF	Tokai-inura, Toaraki-ken

State ^a	Name of Facility	Location
Enrichment plants		
Argentina	Mock-up Laboratory	Pilcaniyeu
	Mol Exc & Iso-Sep Tech R&D Lab	Centro Atomico Bariloche
	URANIUM ENRICHMENT PLANT	PILCANIYEU
Australia	Silex	
Brazil	Isotopic Enrich.Lab.(LEI)	IPERO, SAO PAULO
	LASER SPECTROSCOP.LAB.(AR/LAS)	SAN JOSE DOS CAMPOS
	U-235 Centrifuge Enr. Plant	Resende
	Uran.Enrich.Pilot Plant(USIDE)	Ipero, Sao Paulo, Brazil
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	20 km northeast to Qom City
	PFEP	Natanz
Japan	CTF	Kitakami-gun , Aomori-ken
	NEP	Tomata-gun, Okayama-ken
	REP	Kamikita-gun, Aamori-ken
Netherlands	Urenco Nederland	Almelo
South Africa	KLD	Pelindaba
United Kingdom	Urenco E22, E23, A3	Capenhurst
Separate storage facilities		
Argentina	CENT.ST.IRR.SP.FISS.M.(DCMFEI)	CENTRO ATOMICO EZEIZA
		CENTRO ATOMICO
	CENT.STORE SP.FISS.MAT.(DCMFE)	CONSTITUYENTES
	DUE	Centro Atomico de Ezeiza
	Irrad. Res. React. Fuel Store.	CENTRO ATOMICO EZEIZA CENTRO ATOMICO
	NUCLEAR MATERIAL STORAGE	CONSTITUYENTES
	STORAGE BUNKER	CENTRO ATOMICO EZEIZA
Armenia	SSFS	Metsamor
Australia	Bulk Storage Facility	Lucas Heights, Sutherland
Belgium	Belgoprocess	Dessel
	Belgoprocess	Dessel
	ELBEL. DL. DS	Beveren
	Wet Store	Tihange
Brazil	Aramar Store	IPERO
Bulgaria	DSFSF KNPP 2	Kozloduy
Duiguitu	SFSF Kozloduy 1	Kozloduy
Canada	ACEL RESEARCH	PINAWA, MANITOBA
Canada	DP DRY STORAGE	TIVERTON, ONTARIO
	DWMF	Darlington, ONTARIO
		Chalk River Laboratories
	FPSF CENTULY L	
	GENTILLY I	GENTILLY, QUEBEC
	NMSF	CHALK RIVER, ONTARIO
	PUFDSF	PICKERING, ONTARIO
	SPENT FUEL CANISTER STORAGE	CHALK RIVER, ONTARIO
	Waste Storage Facility	CHALK RIVER, ONTARIO
	Waste Storage Facility	CHALK RIVER, ONTARIO
	WUFDSF	TIVERTON, ONTARIO, NOG 2TO, CN
Czech Republic	ISFS Dukovany	Dukovany
	ISFS Temlin	Temelin

State ^a	Name of Facility	Location
	Radioactive Waste Rep. Richard	Litomerice
	VAO, HLWS	Rez
Denmark	DD Storage	Roskilde
	DD Waste	Roskilde
Finland	SF Repository	Olkiluoto
	TVO-KPA-STORE	Olkiluoto
Germany	Adv. Nuclear Fuels UF-6 Lager	Lingen
	AVR-BL	Juelich
	BZA Ahaus	Ahaus
	Energiewerke Nord GmbH	Lubmin
	EWN. ZLN	Lubmin
	HDB	Eggenstein - Leopoldshafen
	Kernmateriallager 87	Rossendorf
	KFA-AVR	Juelich
	KFK-FR-2	EGGENSTEIN-LEOPOLDSHAFEN
	NCS-Lagerhalle	Hanau
	PTB-Spaltstofflager	Hanau
	SZK Kruemmel	Geesthacht
	SZK Kruemmer	Biblis
	SZL Biolis 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
Hungary	Cent. Isotope Store	Budapest
	MVDS	Paks
India	TAPS AFR	TARAPUR, MAHARASHTRA STATE
Indonesia	TC and ISFSF	Serpong
Iran, Islamic Republic of	KWS	Karaj
Iraq	Tuwaitha Location C	Tuwaitha
Italy	Centro di Comune di Ricerca	Ispra
	Dep. Avogadro	Torino
	ESSOR STORAGE	Ispra
	Lab.Misure Nucleari PERLA	Ispra
	NUCLECO S.p.A.	Roma
Japan	Fugen	Tsuruga-shi, Fukui-ken
	Fuku-I-CSFS	Futaba-gun, Fukushima-ken
	JAERI Mutsu	Mutsu-shi, Aomori-ken
	KUFFS	Sennan-gun, Osaka
	NFI Kumatori-2	Sennan-gun, Osaka
	Ningyo R & D	Tomata-gun, Okayama-ken
	RFSC	Mutsu-shi, Aomori-ken
Kazakhstan	Baikal-1 DSFS	Kurchatov
rxuZuXII5tuII	BN-350 Temp. Storage	Aktau
	Div-550 Temp. Storage	Aniau

State ^a	Name of Facility	Location
Korea, Republic of	Acrylonitrile Plant	Ulsan
	NMSF	KAERI Site in Taejon
	Uranium Residue Storage Fac.	KAERI-DAEJEON
Lithuania	SNFS-1	Visaginas
	SNFS-2	Visaginas
Netherlands	COVRA	Vlissingen-Oost
	HABOG	Vlissingen
Poland	ZUOP	Swierk
Portugal	Inst. de Armazenagem	Sacavem
Romania	CNE Cernavoda IDSFS	Cernavoda
Russian Federation	IUEC Storage Facility	Angarsk
Slovakia	JAVYS ISFS	Jaslovske Bohunice
	JAVYS Nuclear Store	Jaslovske Bohunice
South Africa	BULK STORAGE FACILITY	PELINDABA
	E-Building	VALINDABA
	HEU Storage Vault	PELINDABA
	Koeberg Castor Storage Fac.	Cape Town
	THABANA PIPE STORE	PELINDABA
	WASTE STORAGE FACILITY	PELINDABA
	Y-Plant Storage Facility	PELINDABA
	Z-Plant	PELINDABA
Spain	Asco ATI	Asco
Spain	ATI	Almonacid de Zorita
	CN Trillo	Trillo
Sweden	SKB Clab Store	Oskarshamn
Switzerland		
Switzerland	SAPHIR	P.SHERRER INS.(PSI) WUERENLIN.
	ZWIBEZ KERNKRAFTWERK BEZNAU	KERNKRAFTWERK BEZNAU
TTI '	ZWILAG	WUERENLINGEN AARGAU
Ukraine	Chernobyl NPP-SFS	Chernobyl
	Chernobyl SNFSF-2	Chernobyl
	Khmelnitski FF Storage	Neteshin
	Rovno FF Storage	Kuznetsovsk
	Sth. Ukraine FF Storage	Yuzhnoukrainsk
	Zaporozhe FF Storage	Energodar
	ZAPOROZHE SFS	ENERGODAR
United Kingdom	SMP Export Facility	Sellafield
	SNM Store 9	Sellafield
	THORP Product Store	Sellafield
United States of America	KAMS Storage	Savannah River Site, USA
Other facilities	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Algeria	AURES I	Birine Nucl.Site (Ain Oussara)
		CENTRO ATOMICO
Argentina	Alpha Laboratory ENRICHED URANIUM RECOVERY	CONSTITUYENTES
	LAB.	CENTRO ATOMICO EZEIZA
	FISSION PRODUCTS DIVISION	CENTRO ATOMICO EZEIZA
	LAPEP	Centro Atomico Ezeiza
	TRIPLE ALTURA LABORATORY (LTA)	CENTRO ATOMICO EZEIZA
	INII LE ALTOKA LADOKATOKI (LIA)	CENTRO ATOMICO EZEIZA CENTRO ATOMICO
	URANIUM POWDER FAB. PLANT	CONSTITUYENTES
Australia	R & D Labs	Lucas Heights, Sutherland
Belgium	Belgoprocess	Mol

State ^a	Name of Facility	Location
	CEN-LAB-PU	Mol
	I.R.E.	Fleurus
	IRMM.Geel	Geel
	SCK-CEN Lab.	Mol
Brazil	(LADESI)-COPESP	SAO PAULO
	FUEL DEVELOPMENT & TECH. FAC.	SAO PAOLO, BRAZIL
	LABGENE	IPERO, ARAMAR, SAO PAOLO, BR
	NUC. FUEL & INSTR. DEVEL. LAB.	SAO PAULO
	NUCLEAR MAT. LABLABMAT	IPERO
	REPROCESS.PROJ.(IPEN-CNEN/SP)	SAO PAULO
Czech Republic	Lab. & Stores, Centr. Anal.Lab	Rez
	UJP	Prague
Denmark	Danish Decommiss Hotcell	Roskilde
Egypt	Molybdenum Production Unit	Inshas, Cairo
	NCB	Inshas
Georgia	Razmnozhitel-1	Tbilisi
	Sukhumi Inst.	Sukhumi
Germany	Inst. Kernchemie	Mainz
	JRC-ITU	Eggenstein-Leopoldshafen
	KFA-HZ	Juelich
	Lab. Juelich	Juelich
	PKA Gorleben	Gorleben
	WAK-Heisse Zellen der HVT	Eggenstein-Leopoldshafen
Indonesia	RMI	Serpong
Iran, Islamic Republic of	JHL	Tehran Nuc Res Center, Tehran
	CNEN-ISTEC	Santa Maria di Galeria
Italy		Santa Maria di Galeria
	Impianto Plutonio OPEC 2-CAS	Santa Maria di Galeria
Japan	FMF DAE	Higashi, Ibaraki-ken
	IRAF	Higashi-gun, Ibaraki-ken
	JAERI Oarai R & D	Higashi, Ibaraki-ken
	JAERI Tokai	Tokai-mura, Ibaraki-ken
	JNC Oarai R & D	Higashi, Ibaraki-ken
	JNC Tokai R & D	Tokai-mura, Ibaraki-ken
	Kumatori	Sennan-gun, Osaka
	Mitsui Iwakuni-Ohtake	Kuga-gun, Yamaguchi-ken
	Mitsui Osaka	Takai-shi, Osaka-fu
	NDC Fuel Hot Lab	Tokai-mura, Ibaraki-ken
	NERL	Tokai-mura, Ibaraki-ken
	NFD	Higashi, Ibaraki-ken
	NRF	Tsukuba-shi, Ibaraki-ken
	Showa	Kawasaki-shi, Kanagawa-ken
	Sumitomo-Chiba	Sodegaura-shi, Chiba-ken
	UML	Higashi, Ibaraki-ken
Korea, Republic of	ACPF	AT KAERI SITE, DAEJON
	DFDF	Taejon
	HFFL	Taejon
	IMEF	Taejon
	KAERI R&D Facility	Taejon
	PIEF	Taejon
	PRIDE	KAERI-DAEJEON
Libya	TAJURA URANIUM R&D FACILITY	TAJURA

State ^a	Name of Facility	Location
Netherlands	GCO/ECN Lab.	Petten
Norway	RESEARCH LABORATORIES	KJELLER
South Africa	DECONTAM. & WASTE RECOVERY PL.	PELINDABA
	HOT CELL COMPLEX	PELINDABA
	NU AND DU METALS PLANT	PELINDABA
Spain	C.A. El Cabril	El Cabril
Switzerland	CERN	SWITZERLAND
	E.I.R.	WUERENLINGEN
Ukraine	Chernobyl Conditioning	Chernobyl
	Chernobyl Unit 4 Shelter	Chernobyl
	KHFTI	Kharkov
	Sevastopol Subcritical Assy.	Sevastopol

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

Note: The Agency was also applying safeguards at 17 facilities in Taiwan, China

Note: Additionally under Agency safeguards were 529 locations outside facilities (LOFs) in 107 States and in Taiwan, China.