Major Programme 3 – NUCLEAR SAFETY AND PROTECTION AGAINST RADIATION

Introduction

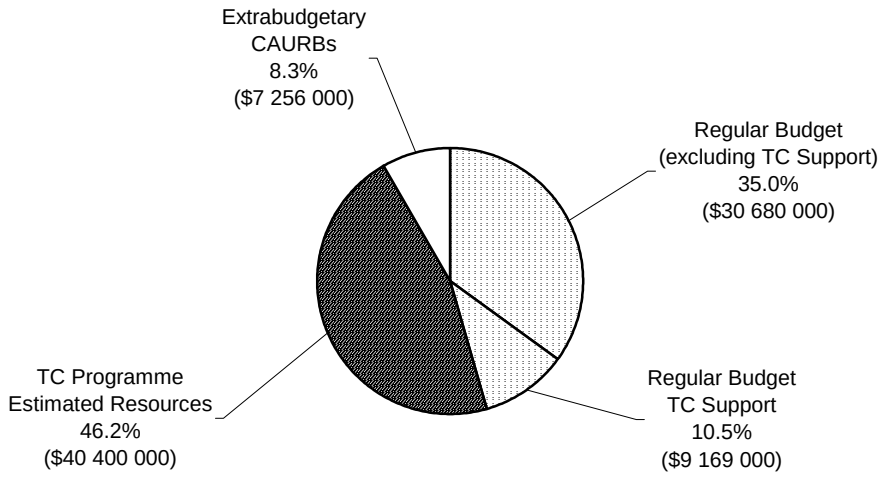
The mandate of this major programme is based in Article III.A.6 of the Statute and includes the establishment or adoption of safety standards to protect health and minimize danger to life and property and provision for the application of these standards. These standards are to be established or adopted, in consultation and, where appropriate, in collaboration with the competent organs of the United Nations and with the specialized agencies concerned. The methods for implementing this mandate, as described in the Agency Statute, include encouraging and assisting research, fostering the exchange of information and encouraging the exchange and training of scientists and experts. The management of radioactive waste, part of this major programme, includes both safety and technology aspects.

In determining the substance of the programme, the expressed wishes and needs of Member States were taken into account, as reflected in statutory responsibilities and legal commitments, including: conventions; General Conference resolutions and decisions of the Board of Governors; the degree of priority attached by Member States to the various activities during the peer reviews of the programme conducted by experts who reflected the views of their governments; and the appropriateness of the Agency taking the lead role.

Objective

To increase the capability of Member States to achieve and maintain a high worldwide level of safety through the use of appropriate technology and safety standards, with emphasis on areas where the need is greatest.

Total Resources for Nuclear Safety and Protection Against Radiation in 2002–2003 (including the TC Programme)



The total resources for implementation for Major Programme 3 amount to $87 505 000 for the biennium. The regular budget constitutes $39 849 000 or 45.5% of this amount (at 2002 prices). The regular budget annual figures for 2002 and 2003 (at 2001 prices) show decreases of $68 000 and $52 000, respectively, compared with the adjusted budget for 2001.

$9.2 million of regular budget funding (10.5% of total resources) will be used to support technical co-operation programming worth $40.4 million in Nuclear Safety and Protection against Radiation either through technical support during formulation and implementation of TC projects, or as an actual contribution to the programme itself through provision of expert services.

Extrabudgetary funding expected ($7 256 000) accounts for a further 8.3%, all of which relates to funding of CAURBs. This amount includes $4.6 million in respect of cost free experts. There is a further $1.9 million for CAURBs for which there is no funding available from any source.

More detailed data on the regular budget proposals and extrabudgetary resources expected to be available are set out by subprogramme in the tables at the end of this major programme text. Details are also given there of the subprogramme funding required for CAURBs. For those CAURBs for which no funding is available, details of the outputs which will not be delivered or will be delayed or hindered are listed.

STRUCTURE OF MAJOR PROGRAMME 3

NUCLEAR SAFETY AND PROTECTION AGAINST RADIATION

Overall Management, Co-ordination and Common Activities

PROGRAMME J. SAFETY OF NUCLEAR INSTALLATIONS

Subprogramme J.1. Regulatory Infrastructure for Nuclear Safety

Project J.1.01. Strengthening of regulatory body effectiveness
Project J.1.02. Enhancing safe regulation of research reactors
Recurrent Project J.1.03. Event reporting and analysis for regulators
Project J.1.04. Enhancing safety of nuclear installations in South East Asia, Pacific and Far East countries

Subprogramme J.2. Development of Safety Assessment Methods and Tools

Project J.2.01. Updating of safety analysis and severe accident management
Project J.2.02. Developing safety management tools
Project J.2.03. Implementing quality assurance in nuclear safety

Subprogramme J.3. Engineering Safety of Small and Medium Sized Reactors and New Nuclear Power Plants under Construction

Project J.3.01. Developing safety approach for small and medium sized reactor designs
Project J.3.02. Safety of nuclear power plants under construction with new features

Subprogramme J.4. Engineering Safety of Existing Nuclear Installations

Project J.4.01. Safety aspects of ageing and obsolescence
Project J.4.02. Periodic safety reviews and configuration management
Project J.4.03. External/internal events and site evaluation

Subprogramme J.5. Operational Safety

Project J.5.01. Operational safety performance
Project J.5.02. Operational safety experience
Project J.5.03. Management of safety and safety culture

Subprogramme J.6. Research Reactor Safety

Project J.6.01. Safety in design and operation of research reactors
Recurrent Project J.6.02. Safety of research reactors under agreement

Subprogramme J.7. Safety of Fuel Cycle Installations

Project J.7.01. Safety standards for fuel cycle installations
Project J.7.02. Integrated safety assessment of fuel cycle installations

Subprogramme J.8. Fostering Harmonization in Nuclear Safety

Recurrent Project J.8.01. Meeting obligations under legal instruments on nuclear safety
Recurrent Project J.8.02. Nuclear safety communications with the public
Project J.8.03. Implementing a strategy for assistance, education and training in nuclear safety
Project J.8.04. Establishing standards for safety of installations

PROGRAMME K. RADIATION SAFETY

Subprogramme K.1. Radiation Safety Standards and Provisions for their Application

Project K.1.01. Establishing standards of radiation protection and safety
Project K.1.02. Revising the International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources

Project K.1.03. Promoting regulatory infrastructures for radiation safety
Project K.1.04. Promoting quality assurance in radiation safety
Project K.1.05. Harmonizing technical support and fostering information exchange
Project K.1.06 Promoting education and training in radiation safety
Project K.1.07. Rendering of radiation safety services

Subprogramme K.2. Safety of Transport of Radioactive Material

Project K.2.01. Establishing safety standards for the transport of radioactive material
Project K.2.02. Appraising the application of safety standards for the transport of radioactive material
Project K.2.03. Incorporating the safety standards for the transport of radioactive material into modal international regulations

Subprogramme K.3. Occupational Radiation Protection

Project K.3.01. Developing occupational radiation protection guidance
Project K.3.02. Operating the Information System on Occupational Exposure (ISOE)
Project K.3.03. Implementing operational health and safety measures on Agency premises and in its own operations
Project K.3.04. Operating the Agency's laboratories for occupational monitoring of external irradiation and intakes of radionuclides
Project K.3.05. Intercomparing radiation protection monitoring measurements and harmonizing radiation protection quantities and units

Subprogramme K.4. Radiological Protection of Patients

Project K.4.01. Developing guidance for the radiological protection of patients
Project K.4.02. Assessing specific radiological protection problems posed by new radiodiagnostic and radiotherapeutic techniques
Project K.4.03. Worldwide surveying of radiological parameters in radiodiagnostic procedures
Project K.4.04. Promoting self-assessment and peer reviewing of medical services on the radiological protection of patients

Subprogramme K.5. Safety of Radiation Sources

Project K.5.01. Developing guidance for the safety of radiation sources
Project K.5.02. Implementing the "Action Plan on the Safety of Radiation Sources and the Security of Radioactive Material"
Project K.5.03. Maintaining a compendium of radiation sources and manufacturers, a reporting system for unusual events and a database for lost and found radioactive sources
Project K.5.04. Implementing an international approach for recovering "orphan" radioactive sources

Subprogramme K.6. Nuclear and Radiation Emergencies

Project K.6.01. Meeting the obligations of the Early Notification and Assistance Conventions for the Agency's response to a nuclear accident or radiological emergency
Project K.6.02. Establishing and maintaining liaison with relevant international organizations as required by the Early Notification and Assistance Conventions
Project K.6.03. Enhancing States' preparedness for responding to a nuclear accident or radiological emergency
Project K.6.04. Retrospectively assessing radiation accidents

PROGRAMME L. MANAGEMENT OF RADIOACTIVE WASTE

Subprogramme L.1. Radioactive Waste Safety Standards and Provisions for their Application

Project L.1.01. Establishing standards of waste safety
Project L.1.02. Providing for the application of radioactive waste safety standards
Project L.1.03. Servicing the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management

Subprogramme L.2. Safety of Disposable Radioactive Waste: Managing Non-Reusable Radioactive Materials and Arranging for their Disposal

Project L.2.01. Developing safety guidance for the predisposal management of radioactive waste
Project L.2.02. Building consensus on principles and criteria for the safety of geological repositories
Project L.2.03. Developing guidance for assuring the safety of near surface disposal facilities
Project L.2.04. Evaluating the safety of new radioactive waste management approaches

Subprogramme L.3. Technologies for Disposable Radioactive Waste Management

Project L.3.01. Transferring technologies for the predisposal management of radioactive waste
Project L.3.02. Building confidence in geological disposal of radioactive waste
Project L.3.03. Transferring technologies for the near surface disposal of radioactive waste based on operating experience

Subprogramme L.4. Safety of Dischargeable Radioactive Waste: Protection of the Public and the Environment

Project L.4.01. Developing guidance for limiting discharges of radioactive substances to the environment
Project L.4.02. Developing guidance and criteria for the protection of the environment
Project L.4.03. Supporting the implementation of the London Convention 1972 and other relevant international undertakings related to the environment

Subprogramme L.5. Safety of Residual Radioactive Materials: Termination of Practices, Decommissioning of Installations and Restoration of Sites

Project L.5.01. Developing guidance and criteria for the safe termination of nuclear practices
Project L.5.02. Developing requirements for the release into the public market of commodities, materials and equipment from areas affected by radioactive residues
Project L.5.03. Developing guidance for the safe restoration of sites affected by radioactive residues

Subprogramme L.6. Technologies for the Decommissioning of Installations and Restoration of Sites

Project L.6.01. Facilitating the transfer of sustainable technologies for decommissioning of facilities
Project L.6.02. Promoting technologies for restoration of contaminated sites

Subprogramme L.7. Management of Disused Sealed Radioactive Sources

Project L.7.01. Conditioning disused sealed radioactive sources
Project L.7.02. Building capacity in Member States to manage disused sealed radioactive sources

Subprogramme L.8. Radioactive Waste Management Information

Project L.8.01. Maintaining radioactive waste information systems
Project L.8.02. Facilitating exchange of waste management information and expertise