TRAINING AND REPAIR OF NUCLEAR INSTRUMENTATION(ARCAL XXXV) (RLA/4/015) G2 New

MODEL PROJECT

CORE FINANCING

YEAR	Experts		Group Activity	Equipment	Fellowships		Scientific Visits		Group Training	Sub-Contracts	Misc. Comp.	TOTAL
	m/d	US $	US $	US $	m/d	US $	m/d	US $	US $	US $	US $	US $
1999	2/0	29,400	72,500	125,500	0/0	0	0/0	0	45,000	0	0	272,400
2000	2/0	30,900	72,500	127,000	0/0	0	0/0	0	65,000	0	0	295,400

First Year Approved: 1999

OBJECTIVES: To enhance the capability and capacity of the existing national and regional nuclear instrumentation centres; to train technical staff in repairing and maintaining nuclear instruments and to provide spare parts.

BACKGROUND: In Latin American and Caribbean countries there is a demand for staff trained in the repair and maintenance of nuclear instrumentation, particularly nuclear electronic equipment for hospitals, where also the provision of spare parts is important for the repair of faulty instruments at low cost. Regional centres can help both Agency and ARCAL Member States to train technical staff in skills that are not covered under the regular national educational programmes. Eighteen countries will participate in this project: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Chile, Cuba, the Dominican Republic, El Salvador, Ecuador, Guatemala, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, Venezuela.

PROJECT PLAN: Expert meetings will prepare and adopt technical documents on repairing and maintaining equipment (RIA, LSC and X-ray). Two new regional centres will be established to train technicians in repairing and maintaining nuclear medicine instrumentation and in software for clinical use. The infrastructure of the three existing regional centres will be enhanced to enable the repair of multichannel analysers, detectors and gamma cameras; and selected national laboratories will be enlarged to carry out maintenance and repair of new nuclear instrumentation. Training activities at a national level will be supported by regional experts lecturing and giving practical assistance in nuclear instrumentation repair and maintenance, and also advising on the use of the technical documents.

NATIONAL COMMITMENT: As in the previous project, ARCAL XIX, the relevant authorities will support all project activities, at national and regional level. The importance of national and regional centres has been well recognized, and the Governments involved will provide the necessary staff, laboratories and other premises, and operating costs. For implementing the activities foreseen in the proposed plan, the participant countries will provide up to US $258,200. These resources will be used to cover part of the training events, experts meetings, and repair and maintenance activities in the national and regional centres.

AGENCY INPUT: Expert services for the national and regional training activities; equipment for establishing new centres at regional level and enhancing the installed capacity of the already established regional centres and selected national laboratories; experts meetings to prepare technical documents on maintenance and repair of nuclear instrumentation (RIA, LSC and digital signal processing); spare parts for training.

PROJECT IMPACT: Two new regional centres for training, repair and maintenance of nuclear medicine instrumentation and for the development of software for clinical use will be established; seven national laboratories will be able to repair and maintain new nuclear instrumentation; at least 50 technicians will be trained in advanced technology, and up to 60 types of equipment will routinely be repaired in the regional centres. Faulty equipment can then be repaired at low cost in most of the national laboratories or in the regional centres.