



ARCAL

**ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA
CIENCIA Y LA TECNOLOGÍA NUCLEARES EN AMÉRICA LATINA Y EL CARIBE**

**PROCEDURES MANUAL
OF ARCAL**

ANNUAL REPORT

Country: Jamaica

Rev. Republic of Panama May 2011



INTRODUCTION

RLA 0037: Supporting a Sustainable Increase in the Use of Research Reactors in the Latin American and Caribbean Region through Networking, Exchange of Experiences, Knowledge Preservation and Training of Human Resources (ARCAL CXIX)

The project began in 2009 with the aim of increasing the use of nuclear research reactors in the Latin American and the Caribbean region and to extend the benefits to those countries that do not have this type of installation to improve the quality of life of the population in through the application of nuclear technology, radioisotopes (RI), radiopharmaceuticals (RP) and human resource development.

1. EXECUTIVE SUMMARY

This report details the 2013 achievements of Jamaican participation in ARCAL Project RLA0037 'Supporting a Sustainable Increase in the Use of Research Reactors in the Latin American and Caribbean Region through Networking, Exchange of Experiences, Knowledge Preservation and Training of Human Resources (ARCAL CXIX)'.

2. NATIONAL COORDINATOR PARTICIPATION IN ARCAL ACTIVITIES

Workshop on Inter-comparison feedback of Proficiency Tests performed in 2012 and 2013 for NAA and other Analytical Techniques

In May 2013, Mr Charles Grant (National Coordinator for RLA0037) attended IAEA Workshop on Inter-comparison feedback of Proficiency Tests performed in 2012 and 2013 for NAA and other Analytical Techniques. Laboratories under the IAEA Technical Cooperation (TC) projects RAF4022, RAS1018, RER4032/RER1007 and RLA0037 participated in previous years (since 2010) in consecutive inter-laboratory comparison rounds organized by the IAEA in conjunction with the Wageningen Evaluating Programs for Analytical Laboratories (WEPAL) to assess their analytical performances.

The main objectives of the meeting were to:

- Present the status reports of the NAA technique proficiency tests performed in 2012-2013 under RAF4022, RAS1018, RLA0037 and RER1007;
- Analyse the results and identify sources of errors with the help of experts;
- Discuss the lessons learned and suggest remedies to improve the forthcoming analysis using NAA;



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

- Draft the meeting report and formulate recommendations.

Jamaica was assessed as operating at the highest or “State of Practice” level.

Workshop on the “Development and Implementation of Strategic Plans at Research Reactors

In August 2013, Mr Charles Grant (National Coordinator for RLA0037) attended the IAEA Workshop on the “Development and Implementation of Strategic Plans at Research Reactors”. The objectives of this workshop were:

- Present actual/improved national strategic plans for research reactor
- Receive comments and advice from expert review of submitted strategic plans
- Discuss common areas for improvement in formulating strategic plans
- Discuss valuable experiences in constructing and implementing strategic plans
- Draft the meeting report and formulate recommendations

The strategic plan presented by Jamaica was well received and was selected as the model plan.

3. RESULTS, difficulties and problems presented at PROJECT AND THE AGREEMENT.

Both the May and July 2013 meetings were open and friendly forums and good relations were established with all participants, experts and IAEA Coordinating staff. The IAEA staff and experts guided participants in the formulation of a realistic and well-structured work programme for the project.



1. EXECUTIVE SUMMARY

This report details achievements of Jamaican participation during 2013 in the Project ARCAL RLA0046 'Strengthening of the Communication and Partnerships in Member States of ARCAL to improve nuclear applications and sustainability (ARCAL CXXXI)'.

2. NATIONAL COORDINATOR PARTICIPATION IN ACTIVITIES ARCAL

Mr John Preston (Senior Engineer and Head, Information Systems, ICENS,) attended the 8-12 April 2003 Meeting of Working Group 2 for the ARCAL 0046 Project in Vienna on behalf of Dr Richard Annells (Coordinator, Jamaica) to carry forward Jamaica's contribution to the work plan.

The objectives of the meeting were to:

- Analyze the findings of the reports from the previous meetings of Working Group 2, and expert missions performed;
- Review the information management platform design for ARCAL.
- Review the project work plan;
- Analyze the results of the expert mission to identify communication products from successful experiences in ARCAL projects;
- Interact with Working Group 3 of the project to carry out joint actions.

The meeting completed the task of defining the information management system, web page design and platform design for ARCAL, also identifying projects for which communication products should be developed. Due to funding limitations in the current cycle, the project work plan and activities plan were revised and redesigned to extend the project to the next IAEA funding cycle 2016-2021.

The refined Information Management System (IMS) integrated ARCAL Portal (web page) for use by the general public was discussed, as well as a communication platform for internal use. The use and platform facilities of the IAEA were analysed and the location of the portal / website in Argentina was discussed. The IAEA SHAREPOINT information platform was adapted to the interests of ARCAL and access to the ARCAL platform was enabled. The web portal will be designed in Spanish, English and Portuguese, with information loaded by personnel from Cuba and Argentina.



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

The meeting discussed legal issues related to the identity of ARCAL and was informed by the IAEA that there was no difficulty using the logo of the IAEA in matters relating to the results of the projects. It was agreed that National Coordinators should provide updated information on the following points to be included in the new website ARCAL:

- National Coordinator name and address;
- Brief history of ARCAL in each Country;
- Lead institutions in each Country.

Information was to be sent by email before May 24, 2013 to the National Coordinator for Argentina (tate@cnea.gov.ar). National Coordinators were to ensure that the Project DTM biennium 2012 - 2013 provided the information for inclusion in the new ARCAL website.

The metadata fields for completion were:

- Title
- Target
- Expected Results
- Documentation deemed to be filed.

The meeting decided that the National Coordinator for Argentina would edit the documents prepared for upload to the web. Each National Coordinator would receive a key to upload documents to the Web. Project Group 1 would establish the format of information to be incorporated into the site.

The new ARCAL website was scheduled to be available online for the OCTA meeting later in 2013, with the web address : **<http://nucleus.iaea.org/sites/arc>**

The meeting decided that DTMs would be responsible for presenting the results of ARCAL projects executed in accordance with the format established by Group 1 on the new platform.



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

Recommendations:

The meeting made the following recommendations:

- Responsibility for entering information to the SITE should be given to the ARCAL National Coordinator who would access it in each country;
- Annual reports submitted by countries should contain communication activities;
- The OCTA meeting should decide between the communicators involved in the project terms of reference following who would be the focal point of communication, taking into consideration the resources to ensure the functions assigned and sustainability;
- Steps should be taken to ensure the sustainability of the communication platform for ARCAL and Information System as a whole.

The meeting agenda was as follows:

AGENDA	
Mon. 8	<ul style="list-style-type: none">• Welcome and introduction of participants in both groups (PMO, TO, G-2 and G-3)• DTM Presentation by compliance of the business plan• DTM Presentation by the outcome of the meeting of the Group 1: Communication Strategy ARCAL preliminary, analysis of applications from groups 1 and 3 and the results of the expert missions.• Preliminary Presentation Partnership Strategy Coordinator (G-3)• Presentation of the draft guidance for evaluating results and impacts inserted into the RSP process (Representative G-2)
Tue. 9	<ul style="list-style-type: none">• Review of the new Web ARCAL.• Review ARCAL Platform.
Wed. 10	<ul style="list-style-type: none">• Review and adjust IT platform



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

	<ul style="list-style-type: none">• 0/0/46 Project review and project RLA RLA 2012/0/10 cycle from 2014 to 2015.• Analysis of legal aspects of the identity of ARCAL by Peter Kaiser.
Thu. 11	<ul style="list-style-type: none">• Analysis of the results of the expert mission of the PER and evaluation to identify successful experiences in projects with the aim of making communication products.• Continued review of the SITE and Platform.• Preparation of the final report of the meeting and for the OCTA report on project progress.
Fri. 12	<ul style="list-style-type: none">• Presentation of the project to OIOS.• Review the Final Report of Working Group 2.• Meeting Groups 2 and 3 to review the report to be presented to OCTA and the final report.

3. RESULTS, difficulties and problems presented at PROJECT AND THE AGREEMENT.

No problems encountered



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

INTRODUCTION

ARCAL RLA5061: 'Supporting Quality Management for the Assessment and Mitigation of Impacts of Contaminants on Agricultural Products and in the Environment (ARCAL CXXIV)

1. EXECUTIVE SUMMARY

This report details the 2013 achievements of Jamaican participation in ARCAL project RLA5061 'Supporting Quality Management for the Assessment and Mitigation of Impacts of Contaminants on Agricultural Products and in the Environment (ARCAL CXXIV)'.

2. NATIONAL COORDINATOR PARTICIPATION IN ARCAL ACTIVITIES

Dr Raymond Reid (RLA5061 Coordinator, Jamaica) attended a one week laboratory accreditation workshop in Uruguay in April 2013. The RLA5061/9002/01 Gestion de calidad (Quality Management) was held in Montevideo, Uruguay, April 22-26, 2013. The workshop was very productive in that it was very interesting, informative and relevant. The workshop was well attended by over thirty participants from the Caribbean, Central America and South America. The participants shared some of their knowledge through oral presentations and group work discussions. Additional relevant information was promised through e-mails. Good contacts were made for future collaborations.

3. RESULTS, difficulties and problems presented at PROJECT AND THE AGREEMENT.

The Pesticide Research Laboratory in the Department of Chemistry, UWI, Mona has benefited tremendously from the training and we are at an advanced stage of preparation for ISO17025 accreditation.

Dr Reid had expected to receive proficiency testing samples in October 2013; as of the writing of this report the samples still had not been delivered.



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

INTRODUCTION

RLA1011: Supporting Automated Systems and Processes in Nuclear Installations (ARCAL CXXIII)

1. EXECUTIVE SUMMARY

This report details the 2013 achievements of Jamaican participation in ARCAL project RLA1011 'Supporting Automated Systems and Processes in Nuclear Installations (ARCAL CXXIII)'.

2. NATIONAL COORDINATOR PARTICIPATION IN ARCAL ACTIVITIES

No Participation during 2013

3. RESULTS, difficulties and problems presented at PROJECT AND THE AGREEMENT.

No Participation during 2013



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

INTRODUCTION

RLA5051: Using Environmental Radionuclides as Indicators of Land Degradation in Latin American, Caribbean and Antarctic Ecosystems

1. EXECUTIVE SUMMARY

This report details the 2013 achievements of Jamaican participation in ARCAL project RLA5051” Using Environmental Radionuclides as Indicators of Land Degradation in Latin American, Caribbean and Antarctic Ecosystems”

2. NATIONAL COORDINATOR PARTICIPATION IN ARCAL ACTIVITIES

No Participation during 2013

3. RESULTS, difficulties and problems presented at PROJECT AND THE AGREEMENT.

No Participation during 2013



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMERICA LATINA Y EL CARIBE

INTRODUCTION

RLA7016: Using Isotopes for Hydrogeological Assessment of Intensively Exploited Aquifers in Latin America (ARCAL CXXVII)

1. EXECUTIVE SUMMARY

This report details the 2013 achievements of Jamaican participation in ARCAL project RLA7016 “Using Isotopes for Hydrogeological Assessment of Intensively Exploited Aquifers in Latin America (ARCAL CXXVII)”

2. NATIONAL COORDINATOR PARTICIPATION IN ARCAL ACTIVITIES

No Participation during 2013.

3. RESULTS, difficulties and problems presented at PROJECT AND THE AGREEMENT.

No Participation during 2013.



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMÉRICA LATINA Y EL CARIBE

4. ANNEXES

4.1) Projects in which the country participates

Project Code	Title of project	Coordinator	Institution
RLA 0037	Supporting a Sustainable Increase in the Use of Research Reactors in the Latin American and Caribbean Region through Networking, Exchange of Experiences, Knowledge Preservation and Training of Human Resources (ARCAL CXIX)	Mr Charles Grant	International Centre for Environmental and Nuclear Sciences
RLA0046	'Strengthening of the Communication and Partnerships in Member States of ARCAL to improve nuclear applications and sustainability (ARCAL CXXXI)'	Dr. Richard Annells	International Centre for Environmental and Nuclear Sciences
RLA5061	Supporting Quality Management for the Assessment and Mitigation of Impacts of Contaminants on Agricultural Products and in the Environment (ARCAL CXXIV)	Dr. Raymond R. Reid	Department of Chemistry University of the West Indies Mona,
RLA1011	Supporting Automated Systems and Processes in Nuclear Installations (ARCAL CXXIII)	Mr. John Preston	International Centre for Environmental and Nuclear Sciences
RLA5051	Using Environmental Radionuclides as Indicators of Land Degradation in Latin American, Caribbean and Antarctic Ecosystems	Mrs. Joan Morrison	Rural Physical Planning Division; Ministry of Agriculture and Fisheries Hope Gardens
RLA7016	Using Isotopes for Hydrogeological Assessment of Intensively Exploited Aquifers in Latin America (ARCAL CXXVII)	Mr. Basil Fernandez	Water Resources Authority



ARCAL

ACUERDO REGIONAL DE COOPERACIÓN PARA LA PROMOCIÓN DE LA CIENCIA Y LA TECNOLOGÍA
NUCLEARES EN AMÉRICA LATINA Y EL CARIBE

4.2) Resources from the country program (includes detailed estimate as financial scoreboard in kind).

Title of Project	Project Code	Value of contribution (€)
Supporting a Sustainable Increase in the Use of Research Reactors in the Latin American and Caribbean Region through Networking, Exchange of Experiences, Knowledge Preservation and Training of Human Resources (ARCAL CXIX)	RLA 0037	5500 (not including 2 workshops)
'Strengthening of the Communication and Partnerships in Member States of ARCAL to improve nuclear applications and sustainability (ARCAL CXXXI)'	RLA0046	4200 (not including workshop)
Supporting Quality Management for the Assessment and Mitigation of Impacts of Contaminants on Agricultural Products and in the Environment (ARCAL CXXIV)	RLA5061	4900 (not including workshop)
Supporting Automated Systems and Processes in Nuclear Installations (ARCAL CXXIII)	RLA1011	500
Using Environmental Radionuclides as Indicators of Land Degradation in Latin American, Caribbean and Antarctic Ecosystems	RLA5051	500
Using Isotopes for Hydrogeological Assessment of Intensively Exploited Aquifers in Latin America (ARCAL CXXVII)	RLA7016	500