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International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

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2015-06-01

Subject: Invitation to a Regional Workshop on Closure and Long Term Care and Maintenance of Sites after Remediation, Baku, Azerbaijan, 7-11 September 2015

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned meeting under the framework of TC Project RER/9/121 – Supporting Environmental Remediation Programmes. The purpose of the meeting and related information are outlined in the attached Prospectus.

For candidates who are selected by the IAEA, the IAEA will cover the cost of return international travel from the home country to Baku, Azerbaijan and provide Daily Subsistence Allowance (DSA) for the duration of the meeting in line with IAEA rules and procedures.

Please submit nominations to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Only if this is not possible, nominations may be submitted on the Nomination Form for Meeting/Workshop available on the IAEA website: <http://www.iaea.org/technicalcooperation/How-to-take-part/In-meetings-WS/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Mr Andrei Chupov (IAEA Official Fax: +43-1-26007 or E-Mail Official.Mail@iaea.org), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than **13 July 2015**.

Yours sincerely,

Martin Krause

Director

Division for Europe

Department of Technical Cooperation

Enclosure: Prospectus

International Atomic Energy Agency

Regional Workshop on Closure and Long-Term Care and Maintenance of Sites after Remediation

PROSPECTUS

- Project Number & Title:** RER/9/121 - Supporting Environmental Remediation Programmes
- Place (City, Country):** Baku, Azerbaijan
- Dates:** 7 – 11 September 2015
- Deadline for Nominations:** 13 July 2015
- Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with the Government of Azerbaijan through the State Agency on Nuclear and Radiological Activity Regulation, Ministry of Emergency Situations, Azerbaijan Republic.
- Host Country Organizer:** Mr Vugar Huseynov
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Ministry of Emergency Situations, Azerbaijan Republic
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Tel: +994 12 5124600 | Fax: +994 12 5124642 | Mob: +994 50 6778643
- Language:** English
- Purpose:** The objectives of this workshop include exposing participants to the most relevant methodologies used in the closure and long term care and maintenance of remediated sites focusing on the management, societal, economic and technical aspects. The management aspects will include elements such as restrictions on land and resources use, record keeping and archiving of information about the site, its contamination and remedial actions in place, as well as compliance with the regulatory framework. The societal issues will deal with elements such as public values, stakeholder involvement mechanisms and means of communication. The economic issues concern the long term funding of a care and maintenance programme. The technical aspects will cover elements such as surveillance and care of the site and remedial actions already in place, prediction of site behaviour, or corrective measures in the case of failure of remedial actions. The treatment of these subjects will be placed in perspective by putting these activities into the wider context of life cycle management and reviewing the conceptual basis of remedial actions and of risk management in general.
- Expected Output(s):** The workshop is intended to allow participants to acquire a comprehensive working knowledge of the concepts, principles and professional practices underlying those activities that occur once site remediation completion has been achieved.

Scope and Nature:

The workshop will address those activities that occur once site remediation has been completed. These post-completion activities support four broad objectives: 1) maintain the integrity of the remedial works; 2) provide relevant information to stakeholders; 3) ensure the efficiency of post-construction operations; and 4) release of the site for unrestricted use.

Background Information:

Site closure and productive reuse is the ultimate goal of this remediation project. Site closure implies the ability to demonstrate with a reasonable level of confidence that a site has attained its specified remediation criteria. This demonstration is based on the results of data collection programs. The results from these data collection efforts may be compared directly to remediation standards, and/or may form the basis of a post-remediation risk assessment to establish that site-specific risk goals have been met. The final end state is ideally the unrestricted release of the site. However, if any control measures remain necessary, long term care and maintenance needs to be put into place. These measures will ultimately assess the performance of different approaches (e.g. engineered, physical and chemical measures as caps, liners, reactive barriers) introduced to protect human health and the environment. If unrestricted release is not possible, the site can still be used for specific purposes (e.g. industrial use) but it is needed to be ensured that the restrictions are complied with. Long-term care and maintenance begins after the end of active remediation. It does not fundamentally encompass any active remediation. Hazards on the site will have been removed or been contained by engineered systems put into place during the active remediation phase, or natural processes, such as attenuation, dispersion or radioactive decay, will have been used to keep exposures below levels of concern. It will involve the care and maintenance of the site and any structures built as part of the remediation solution. Monitoring activities will ensure that the remediation solution behaves as predicted and that any land use restrictions are complied with. Care and maintenance programmes are to be developed during the active remediation phase, and shall address monitoring and maintenance as well as including provisions for corrective actions in case of deviation from the predicted behaviour of the site. The length of the long term care and maintenance phase depends on the half-lives of the residual radionuclides of concern. For some sites, where relatively short lived radionuclides such as ^{137}Cs and ^{90}Sr are the problem, this period can be of the order of hundreds of years. Where long lived radionuclides, such as many of the isotopes of uranium and thorium decay chains are the problem, the stewardship period may have to last effectively for ever.

Participation:

The workshop is open to 30 participants from the IAEA Member States participating in the technical cooperation project RER/9/121, in particular: Armenia, Azerbaijan, Belarus, Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Greece, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, the Former Yugoslav Republic of Macedonia, Poland, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Tajikistan, Ukraine and Uzbekistan.

Participants will be selected based upon their qualifications and using a competitive selection basis.

The participants should be regulators, project managers, planners and other staff involved in planning and managing decision-making in organizations working on, or eventually to be designated as responsible for, remediation projects (e.g., state or national resource management agencies, operators of facilities or sites needing or undergoing large scale clean-up actions, regulatory bodies and national research organizations).

Participants' Qualifications:

Participants should have the appropriate scientific and/or technical background that will allow them to follow and absorb the various elements that compose the workshop.

Participants shall be nominated by the competent national authority of the Member State and, most specifically, by the Member States' official counterpart for the project.

**Nomination
Procedure:**

Please submit nominations to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Only if this is not possible, nominations may be submitted on the Nomination Form for Meeting/Workshop available on the IAEA website: <http://www.iaea.org/technicalcooperation/How-to-take-part/In-meetings-WS/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Mr Andrei Chupov (IAEA Official Fax: +43-1-26007 or E-Mail Official.Mail@iaea.org), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than **13 July 2015**.

**Administrative
and Financial
Arrangements:**

Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details of the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance will be provided with a round trip economy class air ticket from their home countries to Baku, Azerbaijan, and a Daily Subsistence Allowance (DSA) at the prevailing UN Rate. Shipment of accumulated workshop materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the workshop do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the workshop, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.