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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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In reply please refer to: RER/9/107/9011/01

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2015-01-06

Subject: Invitation to a Regional Workshop on Pre-treatment and Treatment of Low and Intermediate Level (L & IL) Radioactive Waste from NPP Operation and Decommissioning, Kozloduy, Bulgaria, 20-24 April 2015

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned workshop under the framework of TC Project RER/9/107 – Strengthening Radioactive Waste Management Capabilities. The purpose of the workshop 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 Kozloduy, Bulgaria and provide Daily Subsistence Allowance (DSA) for the duration of the workshop 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-workshops-WS/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Mr Andrejs Salmins (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 10 February 2015.

Yours sincerely,

Manase Peter Salema

Director

Division for Europe

Department of Technical Cooperation

Enclosure: Prospectus

International Atomic Energy Agency

Regional Workshop on Pre-treatment/Treatment of L&IL Radioactive Waste with Focus on Radioactive Waste from NPP Operation and Decommissioning

PROSPECTUS

- Project Number & Title:** RER9107 “Strengthening Radioactive Waste Management Capabilities”
- Place (City, Country):** Kozloduy, Bulgaria
- Dates:** 20 – 24 April 2015
- Deadline for Nominations:** 10 February 2015
- Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with Government of Bulgaria through the State Enterprise Radioactive Waste "RAW", Department "RAW-Kozloduy"
- Host Country Organizer:** Dilyan Petrov,
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- Language:** The workshop will be held in English
- Purpose:** The workshop objective is to discuss pre-treatment and treatment of low and intermediate level (L&IL) radioactive waste with focus on radioactive waste from NPP operation and decommissioning.
- Expected Output(s):** Improved knowledge on available pre-treatment and treatment of L&IL radioactive waste particularly of radioactive waste arising from NPP

operation and decommissioning. The expected outputs are from presentations which aim to share the experiences and best practices achieved.

Scope and Nature:

This five-day workshop will include overview lectures outlining the experience and best practices on pre-treatment and treatment of low and intermediate level radioactive waste with focus on radioactive waste from NPP operation and decommissioning as well as related safety aspects of managing L&IL radioactive waste. These will be aligned to cover:

- Example of country management of radioactive waste (treatment, intermediate storage, disposal);
- Overview of Thermal Treatment Technologies (pyrolysis, melting, incineration, cold crucible melting, plasma);
- Treatment of spent ion-exchange resins (LLW and ILW) and institutional waste;
- Plasma Melting Facility (PMF) for NPP's;
- Radiological characterization of radioactive waste. Decontamination and free release.
- NPP evaporator concentrates management. Hydrothermal methods in liquid radioactive waste processing.
- Dust suppressing and soils and grounds decontamination methods;
- Pre-treatment of liquid radioactive waste. Selective sorbents and sorption-reagent materials;
- Precipitation (co-precipitation) and membrane techniques for L&IL liquid radioactive waste purification;
- Management of spent ion-exchange resins from liquid radioactive waste purification;

The workshop will include national presentations of participating Member States and discussions focused on specific experiences and problems encountered. The Workshop will also include a Site visit of the Turbine Hall of Units 1 to 4 of Kozloduy NPP, which are subject to decommissioning.

Background Information:

Every country that uses nuclear technology involving radioactive materials, including mining and milling of radioactive ores generates some quantities of radioactive waste. Such waste needs to be processed through segregation, treatment, conditioning and packaging to be either stored or disposed. Storage and disposal of radioactive waste need to be dealt with in all MS's. There is continuous need to improve technology and human resources to enhance and strengthen the technical capacity, efficiency and safety of existing or for building new predisposal waste management facilities related to waste processing or storage. Countries with small amounts of radioactive waste usually do not have solutions for final disposal. Since predisposal management of radioactive waste needs to be aligned with the disposal solutions, timely determination of integrated national policy and strategy is essential for the safe and effective management of radioactive waste. There is a need to assist in defining efficient ways to improve existing waste management practices and to assist in the resolution of particular or common problems in MSs to

address advanced approaches in radioactive waste management, such as integrated approach in planning and waste strategies implementation, waste minimization, recycling and reuse options, quality assurance and other requirements of predisposal waste management.

The main activities on this Project are group events to share experiences and on-job training for key staff to learn best practices. This project allows to strategically focus on training and other activities of groups of MS's at similar levels of programme development, thus optimizing resources, delivering more deep than generic messages and also enhancing connections between the MS's.

Participation: The workshop is open to all beneficiaries of the project. The maximum number of participants is 25. The target countries are: Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Georgia, Greece, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Montenegro, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Tajikistan, The Former Yugoslav Republic of Macedonia, Turkey, Ukraine, and Uzbekistan.

Participants' Qualifications: The participants should be specialists in radioactive waste management. The participants should prepare in advance overview presentations outlining national experience and issues related to the pre-treatment and treatment of L&IL radioactive waste in their countries focusing on radioactive waste from NPP operation and decommissioning.

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 Andrejs Salmins (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 **10 February 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 **Kozloduy, Bulgaria**, 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.