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International Atomic Energy Agency

Agence Internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energia Atómica

Vienna International Centre, PO Box 100, 1400 Vienna, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

Email: Official.Mail@iaea.org • Internet: <http://www.iaea.org>

In reply please refer to: **621-I2-TM-52235**

Dial directly to extension: (+43 1) 2600-22791

The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the Ministries of Foreign Affairs of the IAEA's Member States and has the honour to request that they draw the attention of the appropriate governmental authorities to the forthcoming **Technical Meeting on Strengthening Resiliency in Nuclear Power Plant Operations in the Face of Current and Future Challenges** to be held at the IAEA's Headquarters in Vienna, Austria, from **6 to 9 September 2016**.

The purpose of the meeting is to provide a forum for executives and leaders from nuclear operating organizations to share their experience and knowledge related to mid- and long-term challenges in nuclear power plant (NPP) operation, with the ultimate aim of maintaining safety and enhancing the efficiency and effectiveness of nuclear electricity generation. Through the promotion of networking, the meeting will facilitate discussions on forward-looking strategies for operating NPPs and on ways to sustain and improve safe, reliable and efficient operations, as well as to achieve a high level of proficiency and competency in terms of the quality, capacity, availability and longevity of NPPs, in the face of these foreseen challenges.

The attached Information Sheet provides further details of the meeting.

The meeting will be held in English.

The meeting is intended for experts in the field who may be interested in participating. Member States are invited to designate one or more participants for this meeting. Member States are strongly encouraged to identify suitable women participants.

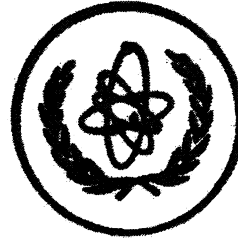
The IAEA is generally not in a position to bear the travel and other costs of participants in the meeting. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Such assistance may be offered upon specific request to normally one participant per country provided that, in the IAEA's view, the participant on whose behalf assistance is requested will make an important contribution to the meeting. The application for financial support should be made at the time of designating the participant.

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in meetings, workshops or training courses or for consultants. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

در یافت از طریق پست عادی

Designations should be submitted through the established official channels not later than **1 July 2016** for the attention of the Scientific Secretary of the meeting, Mr Arif Nesimi Kilic, Division of Nuclear Power, Department of Nuclear Energy, IAEA, Vienna International Centre, PO Box 100, 1400 Vienna, Austria (Tel.: +43 1 2600 22791; Fax: +43 1 26007; Email: A.N.Kilic@iaea.org). Designations should also be copied to the Administrative Secretary for the meeting, Ms Lilly Makil (Email: L. Makil@iaea.org). The full names and complete contact details (including postal address, telephone/fax numbers, and email address) of designated participants should be provided.

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to assure the Ministries of Foreign Affairs of the IAEA's Member States of its highest consideration.



2016-05-26

Enclosures: Information Sheet
Participation Form (Form A)
Grant Application Form (Form C)



Technical Meeting on Strengthening Resiliency in Nuclear Power Plant Operations in the Face of Current and Future Challenges

**Hosted by the
International Atomic Energy Agency**

**IAEA Headquarters
Vienna, Austria**

6–9 September 2016

Ref. No.: 621-I2-TM-52235

Information Sheet

A. Background

During the 59th regular session of the International Atomic Energy Agency (IAEA) General Conference in September 2015, several IAEA General Conference resolutions were issued regarding the IAEA's support for operating nuclear power plants (NPPs). Specifically, stressing the essential role which the IAEA plays as an international forum for the exchange of information and experience related to NPP operation, General Conference resolution GC(59)/RES/12 recognized the need to further strengthen the cooperation between the IAEA and other international organizations as well as multinational networks of NPP operators. This resolution — emphasizing the need for ensuring competent technical support at every stage of the lifetime of an NPP for safe and reliable operations and stressing the importance of adequate human resources for ensuring safe and secure operation — called upon the IAEA Secretariat:

- To organize periodic meetings or conferences of groups of nuclear operators for the promotion of networking, as experience sharing in the field of NPP operation is an effective tool to enhance safety and to promote the effectiveness of operating organizations;

- To continue to organize capacity building workshops on vital topics relating to nuclear power to understand and implement, in an integrated way, the requirements of effective management systems to ensure the safety, effectiveness and sustainability of nuclear power programmes; and
- To disseminate, through guidance, best practices and experience with respect to leadership and management.

Furthermore, the nuclear industry executives who participated in the Fifth Nuclear Operator Organization Cooperation Forum, themed “Top 10 in Next 10” and held in Vienna, Austria, on 16 September 2015,¹ identified the top ten challenges for NPP operating organizations over the next decade. The discussions on top challenges for the nuclear power industry — including strategies and approaches to face them — in the next decade, revealed issues ranging from technical to human aspects of safe, reliable and efficient operation needs, including:

- Economic and sustainable operation due to evolving nuclear, environmental, financial policies, public acceptance, dynamic energy markets and generation portfolios with renewable sources;
- Excellency in operations, particularly in the areas of:
 - Plant safety robustness;
 - Proactive safety and plant health management; and
 - Establishing and maintaining human and organizational resilience.
- Management of costs and maximization of benefits for ageing management and modernization;
- Maintaining expertise, knowledge and capabilities in design, operation and maintenance; by technology, resource and experience sharing via cooperation among owner/operator organizations;
- Supply chain sustainability; and
- Management of spent fuel and radioactive waste.

The establishment, expansion and maintenance of nuclear generation in a country and its sustainability are largely dependent on the national infrastructure and national/international interfaces covering a wide range of systems, activities and capabilities. These include the development of energy infrastructures, policies and regulations, responsibilities and capabilities of the organizations involved.

B. Purpose

The purpose of this meeting is to provide a forum for executives and leaders from nuclear operating organizations to share their experience and knowledge related to mid- and long-term challenges in NPP operation, with the ultimate aim of maintaining safety and enhancing the efficiency and effectiveness of nuclear electricity generation. Through the promotion of networking, the meeting will facilitate discussions on forward-looking strategies for operating NPPs and on ways to sustain and improve safe, reliable and efficient operations, as well as to achieve a high level of proficiency and competency in terms of the quality, capacity, availability and longevity of NPPs, in the face of these foreseen challenges.

¹ The Forum was organized as a side event of the 59th regular session of the IAEA General Conference and featured the participation of nuclear industry executives from Canada, Finland, Japan and the Republic of Korea, as well as representatives of three international organizations: the Electric Power Research Institute (EPRI), the World Association of Nuclear Operators (WANO) and the Nuclear Generation II & III Association (NUGENIA).

Specifically, this meeting will focus on the management of the main challenges and on proposed or currently implemented solutions for operating NPPs, and the topics considered for discussion will consist of the technical and programmatic aspects of safe and sustainable NPP operation, such as:

- Plant performance and health;
- Maintenance, upgrade, modernization of assets (including human assets);
- Effective outage and operation management (including fuel and radioactive waste);
- Effective organizational culture and management system;
- Future direction of strategic or functional leadership; and
- Actions to enhance robustness and compliance after major events.

C. Expected Outcome

The primary outcome of this meeting will be the identification and discussion of current and future significant challenges to nuclear electricity generation. These discussions among leaders of the nuclear power industry will enable them to inform each other — and the IAEA Member States — of common challenges and the best practices, vision and strategies to face these challenges. Discussions and findings will be disseminated in the form of a meeting report and will provide an industry input on the status and outlook of nuclear electricity generation.

The secondary outcome of this meeting is to determine and anchor future IAEA activities in support of addressing challenges in the management of safety and sustainability for operating NPPs. It will prompt mechanisms² for an effective ‘collection of industry input and feedback’ to better and more effectively organize IAEA activities to assist owner/operator organizations (utilities). This outcome will be included in the meeting report as recommendations by the nuclear power visionaries and strategists to the IAEA for supporting safe and sustainable nuclear electricity generation.

D. Target Audience

The targeted participants for this meeting are the current and future executives and leaders of nuclear industry owner/operator organizations (utilities) in Member States with operating NPPs. Specific individuals and organizations that are encouraged to participate include:

- Owner/operator organization executives and leaders (e.g. chief nuclear officers, chief executive officers, plant managers);
- Senior managers with responsibilities for operations, engineering, maintenance and special projects departments within the owner/operating organizations;
- Technology owners’ groups;
- International and regional operator and industry associations; and
- Technical and research support organizations.

² Potential mechanisms that may be suggested by Member States, such as periodic (biannual, annual, or biennial) IAEA meetings, conferences, summits of focus groups or committees, as well as publications, will be discussed and identified at the meeting.

The leaders from responsible designers, regulators or governmental entities involved in an international/regional/national role to establish strategies for addressing the top challenges in the design, operation and regulation of NPPs in the next decade are also encouraged to participate.

Participants will be asked to give a presentation on their personal/organizational/national/international experience, as well as to take part in the discussions organized during the panel and breakout sessions. This will ensure a common understanding of issues from each organization's perspective.

E. Topics

The specific topics that are proposed to be covered during the meeting will consist of specific information on the experience, benefits, risks, difficulties and challenges involved. Primarily the topics are built upon the challenges that were brought up and discussed by the industry executives during the Fifth Nuclear Operator Organization Cooperation Forum on 16 September 2015. At the Forum, which was themed "Top 10 in Next 10", industry leaders focused on the ten most critical issues facing NPP operation in the next decade:

- Safety and plant health management by establishing and maintaining human and organizational resilience;
- Challenges to economic and sustainable operation and strategies for evolving regulations, financial markets and generation portfolios, especially with renewable sources;
- Management of costs and maximization of benefits, especially in the areas of ageing management, modernization and safety robustness;
- Supply chain sustainability;
- Addressing spent fuel and radioactive waste management/disposal and potential economic impacts of changes to decommissioning fund structures;
- Maintaining expertise, knowledge and capabilities in design, operation and maintenance;
- Utilizing modern facility configuration management tools and software;
- Technology, resource, experience sharing and cooperation among owner/operator organizations and involvement and interface of the stakeholders for the safe and efficient operation of NPPs;
- Anchoring leadership behaviours for future leaders to support safe, reliable and sustainable operations and to manage future challenges in safety, economics and workforce demography; and
- Stakeholder and public engagement and management of public policy.

The reason for including a broad range of issues in this list is to minimize the possibility of omission of any significant issues at this first meeting, which will be exploratory in nature. As explained in Section C above, this meeting is foreseen as marking the start of a series of more focused and topical IAEA meetings in the future.

F. Working Language

The meeting will be conducted in English. No interpretation will be provided.

G. Administrative and Financial Arrangements

The selected candidates will in due course be sent full details of the procedures to be followed with regard to administrative and financial matters.

No registration fee is charged to participants. The costs of the meeting facilities and meeting logistic support will be borne by the IAEA

Travel and subsistence expenses of participants may be borne by the IAEA utilizing the limited funds that are available to help cover the cost of certain participants. Such assistance can be offered upon specific request to normally one participant per country provided that, in the IAEA's view, the participant on whose behalf assistance is requested will make an important contribution to the meeting. The application for financial support should be made at the time of designating the participant.

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in meetings, workshops or training courses or for consultants. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

H. Application Procedure

Designations should be submitted on the attached Participation Form.

Completed forms should be endorsed by the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) and returned through the established official channels.

The applications must be received by the IAEA not later than **1 July 2016**. Designations received after that date or applications sent directly by individuals or by private institutions may not be considered. Designating Governments will be informed in due course of the names of the selected candidates and at that time full details will be given on the procedures to be followed with regard to administrative and financial matters.

For Member States receiving financial assistance through technical cooperation funds, applications for financial support should be made at the time of designating the participant(s).

I. Visas

Designated participants will be required to enter Austria and should submit the necessary visa application to the nearest diplomatic or consular representative of the government of Austria, as soon as possible. Visa arrangements, including transit visas, are the sole responsibility of the participant. He/she should initiate the necessary actions for obtaining a visa prior to departure.

J. Local Arrangements

The meeting will be held at the IAEA's Headquarters, i.e. at the Vienna International Centre (VIC), Wagramerstraße 5, Vienna, Austria. The meeting will take place in Room **VIC C0343** and it will start at 09:30 on Tuesday, 6 September 2016, and end at 12:30 on Friday, 9 September 2016.

Participants are kindly requested to arrive at Gate 1 of the VIC at least an hour before the meeting starts, in order to allow adequate time for security checks and registration. Participants should bring some form of personal identification, such as a national passport, in order to identify themselves to the security officers.

K. IAEA Secretariat

Scientific Secretary:

Mr Arif Nesimi KILIC
Nuclear Power Engineering Section
Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Tel.: +43 1 2600 22791
Fax: +43 1 2600 29598
Email: A.Kilic@iaea.org

Administrative Secretary:

Ms Lilly MAKIL
Nuclear Power Engineering Section
Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Tel.: +43 1 2600 22789
Fax: +43 1 26007
Email: L.Makil@iaea.org

Subsequent correspondence on any matters related to the meeting should be sent via email, fax, or post to the Scientific Secretary, Mr Arif Nesimi Kilic, with a copy to the Administrative Secretary, Ms Lilly Makil.

Participation Form

Technical Meeting on Strengthening Resiliency in Nuclear Power Plant Operations in the Face of Current and Future Challenges

IAEA Headquarters, Vienna, Austria

6–9 September 2016

To be completed by the participant and sent to the competent official authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed) with reference to **IAEA meeting TM-52235**.

At the same time as you send the original to your national authority, please send a copy of this form directly to the IAEA Scientific Secretary of the meeting, Mr Arif Nesimi Kilic, at: A.N.Kilic@iaea.org, and to the Administrative Secretary, Ms Lilly Makil, at: L.Makil@iaea.org.

Deadline for receipt by IAEA through official channels: 1 July 2016

Surname:	Given names:	Mr/Ms:
Title and position:	Nationality:	
Organization/Company:		
Full mailing address (including country):		
Phone (including country code):	Fax (including country code):	
Email 1:	Email 2:	
Designating Government or organization:		
I intend to give a presentation: No <input type="checkbox"/> Yes <input type="checkbox"/> , with the following title: Include a brief description or an outline of a presentation (up to 50 words)		
Date:	Signature:	

Grant Application Form

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Deadline for receipt by IAEA through official channels: 1 July 2016

Family name:	Given name(s):	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yyyy/mm/dd):	Nationality:	

1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended from to	

2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked from to	

3. Description of work performed over the last three years:

4. Institute's/Member State's programme in field of meeting:

Date: _____ Signature of applicant: _____

Date: _____ Name, signature and stamp of responsible Government official: _____