



IAEA

International Atomic Energy Agency

Webinar on the Implementation and Enhancement of the IAEA's Technical Safety Review Service

**Organized by the
IAEA Division of Nuclear Installation Safety (NSNI)
Safety Assessment Section (SAS)**

Tuesday, 15 March 2022

Scheduled at 14:00 CET

Duration: 2 hours

Information Sheet

INTRODUCTION

IAEA Technical Safety Review (TSR) services are aimed at addressing the needs of Member States at different stages of development and deployment of a nuclear power programme on a broad spectrum of safety related topics in the following areas:

- Design Safety (DS);
- Generic Reactor Safety (GRS);
- Safety Requirements (SR);
- Probabilistic Safety Assessment (PSA);
- Accident Management (AM);
- Periodic Safety Review (PSR).

On the basis of the [IAEA Safety Standards](#), the TSR services provide an independent evaluation of the plant design safety and safety assessment documentation, which are adapted to address the specific needs of a requesting Member State.

The TSR services can be conducted during the following lifetime stages:

- conceptual to detailed design;
- various pre-licensing and licensing stages, nuclear power plant construction; and
- operation and plant modifications, including periodic safety reviews and lifetime extensions.

OBJECTIVES

The purpose of the event is to present the experiences in, and lessons learned from, the implementation of recent Technical Safety Review (TSR) services and to provide a forum for information exchange among Member States. The current needs in relation to TSRs for operating and new reactors, including small modular reactors (SMRs) and those with innovative designs will be discussed during this webinar session.

During the event, the IAEA will present in detail the streamlined approach of the TSR service and the [Technical Safety Review \(TSR\) Service Guidelines \(IAEA Services Series No. 41\)](#). Additionally, the meeting will also cover the newly developed IAEA technical guidelines for the conceptual design safety review of SMRs and innovative reactor designs. Conceptual design refers to the first stage of the design process where the broad framework of a nuclear installation is developed; in other words, it is the rough draft of a nuclear installation's function and form. Because many of these technologies are at an early design stages, there are more conceptual designs that are currently under review.

TARGET AUDIENCE

This event is aimed at regulatory bodies, designer organizations, operators or technical support organizations that have received TSR services or are interested in them, and at experts who have already participated or plan on participating in a TSR service.

WORKING LANGUAGE(S)

The webinar will be conducted in English.

REGISTRATION

Please register for the webinar using this link < <https://cutt.ly/TSR-Technical-Safety-Review-IAEA> > not later than **14 March 2022**. After the registration and acceptance of your participation, you will receive an electronic mail containing information on how to access the webinar by following a hyperlink to join the WebEx meeting or by calling in by phone.

You can test your ability to connect to a WebEx meeting at the following link: <https://www.webex.com/test-meeting.html#>. Please contact your IT department if the test fails. For additional help regarding registration, please contact Mr Francisco Parada, Safety Assessment Section (F.Parada-Iturria@iaea.org).

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Mr Jozef Misak, Vice-President at UJV Rez.

Jozef is a graduate and has PhD degree from the Faculty of Nuclear Science and Engineering of the Czech Technical University. He has over 50 years of experience in nuclear engineering/nuclear safety and more than 30 years of managerial experience in non-governmental, governmental and international organisations in various posts up to general director of the Nuclear Power Plant Research Institute in Slovakia, and first chairman of the Nuclear Regulatory Authority of the Slovak Republic. During the period 1993-1997 he was also the Governor and Vice-Chairman of the IAEA Board of Governors, a member of the IAEA Advisory Commission on Safety Standards, President of the Diplomatic Conference for Adoption a Protocol to Amend the Vienna Convention and Convention on Supplementary Funding (in 1997). From 1998 to 2004 he was Head of the IAEA Safety Development Unit. Since 2005 working in UJV Rez as Vice-President focusing mainly on management and coordination of nuclear safety matters in connection with major nuclear projects of the institute nationally and internationally. Working as a key expert in several major projects funded by European Commission. Continuously extensively involved in IAEA activities such as development of safety standards, peer-review services and training activities. Author of hundreds of research and engineering reports, scientific articles and presentations in the area of nuclear safety and the key role of nuclear power as a sustainable energy source.



Mr Janos Krutzler, Nuclear Safety Inspector at HAEA.

Janos is a nuclear safety inspector working for the Hungarian Atomic Energy Authority (HAEA). He was head of section from 2018 to 2021 responsible for coordinating regulatory activities related to Hungary's new NPP project (Paks II), including licensing and on-site supervision. He was also a project manager responsible for coordinating the review of the Construction License Application of Paks II, and was the expert level coordinating counterpart of an IAEA TSR DS and PSA review service mission to Hungary, to review the Paks II PSAR and PSA documentation. He has a MSc in Energy Engineering (Section of Nuclear Power Plant Engineering) from the Budapest University of Technology and Economics and is extensively involved in IAEA activities, such as development of safety standards.



Mr Olivier Nusbaumer, Principal Engineer at Leibstadt NPP

Olivier is a graduate and has PhD degree from the Swiss Federal Institute of Technology (ETH) in Nuclear Engineering, Safety Analysis and Risk Management. He has over 20 years of experience in safety analyses and risk management. He has led many complex risk-informed projects, development and modernization of PSA risk models and was involved risk related projects with national and international authorities. Since 2000, he is working in Leibstadt Nuclear Power Plant in Switzerland as lead scientific expert for safety and risk analyses, focusing on quantitative risk management, development of risk models and accident simulators. Continuously extensively involved in IAEA activities such as development of safety standards and peer-review services and a member of national and international committees on safety and risk analyses.