

## KEY DEADLINES

26 March 2021	Submission of abstracts (including Forms A and B);
26 March 2021	Submission of grant applications (Forms A and C);
14 May 2021	Notification of acceptance of abstracts
2 July 2021	Submission of accepted full paper (max. 8 pages).

## REGISTRATION FEE

No registration fee is charged.

## LANGUAGE

The conference will be held in English.

## CONFERENCE WEB PAGE

Detailed information on administrative procedures, including registration, submission of papers and grants, is provided on the conference web page:

<https://www.iaea.org/events/international-conference-on-operational-safety-of-nuclear-power-plants-2020>

Please include reference number IAEA-CN-284 in all communications.

## SCIENTIFIC SECRETARIES

### SCIENTIFIC SECRETARY OF THE CONFERENCE

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### ADMINISTRATION AND ORGANIZATION

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Organized by the



Hosted by the  
People's Republic of China  
through the  
China Nuclear Energy  
Association (CNEA)



# International Conference on Enhancing the Operational Safety of Nuclear Power Plants

30 August—3 September 2021  
Beijing, China



Organized by the



CN-284

## BACKGROUND

Ensuring the safe, secure, efficient and reliable long-term operation of nuclear power plants (NPPs) is the main priority for all involved in the nuclear industry. Both new and existing power plants need to be operated by skilled, trained and competent personnel and led by effective leaders.

NPP owners and operators face the challenge of maintaining the highest standards of safety while striving to improve plant performance through technical and organizational changes such as plant modernisation, improved life management, power upgrades and outage optimization.

The conference will highlight enhancements in operational safety management at all stages of NPP operations from new build, existing and extended life operations.

## OBJECTIVES

The conference aims to foster the exchange of information and experiences related to enhancing NPP operational safety during commissioning, start-up, ongoing and long-term operation among representatives of new and existing nuclear operators, regulators, technical support organizations, construction companies and other relevant organizations. The conference aims to:

- Describe the role of leaders and highlight how coaching can drive continuous improvements.
- Discuss opportunities and lessons learned from new NPP construction.
- Explain the role of operational safety peer reviews as tools to confirm the commitment of NPP owners and operators to safety improvements.
- Present case studies that illustrate how the development of standards and improvements in risk management, nuclear and industrial safety initiatives together with an effective safety culture, enhance operational safety performance.
- Discuss the role of the corporate organizations in maintaining and enhancing operational safety throughout the lifecycle of a nuclear power plant.
- Review the management of long term operation of NPPs, including ageing management and additional research and development needed to define the limiting factors for plant life extension.
- Examine the importance of operating experience feedback and periodic safety reviews for the enhancement of operational safety.
- Address the various challenges faced by new operators and existing NPP operators extending their fleet or restarting units, including: human resource management, regulatory requirements, knowledge transfer to new staff, equipment performance monitoring and safety culture.

## TOPICS

- **Leadership and Safety Culture**  
*striving for excellence*
- **New Build**  
*challenges and opportunities*
- **Operational Performance Improvements**  
*getting better at what we do*
- **Corporate Oversight**  
*influencing behaviours*
- **Long Term Operations**  
*extended operations*
- **Operating Experience**  
*completing the learning cycle*

## AUDIENCE

The conference is intended for representatives of existing and new nuclear operators, regulators, technical support organizations, construction companies and other relevant organizations. It will provide a platform for participants to learn from each other's experiences in the safe, efficient and reliable operation of NPPs worldwide.