

Nuclear Power Plant Life Management & Extension

16-17 November / Paris, France

2016

The Debate over the Ongoing Regulatory & Operational Challenges

Key Topics

- The Role of Nuclear Power in the Future Energy System
- Challenge Faced During Life Extension License Application Process
- What Can Operators Do to Efficiently Advance in Longer than Expected NPP Lifetime?
- LTO, Repair Procedure & Control Systems Refurbishment
- Equipment Reliability: How to Keep the Plant Operating
- Economics of LTO
- Addressing the Licence Extension from the Regulatory Perspective
- Environmental & Safety Standards
- Collaborative R&D to support LTO
- Community Connection to the Project & Public Acceptance
- Workforce Development in Nuclear Industry

Agenda Committee

Regis Nhili, *Director of Materials Ageing Institute, EDF R&D*
 Pal Kovac, *Advisor to CEO, State Secretary for Energy Affairs Of The 2nd Orban Government, MVM Paks Nuclear Power Plant Ltd.*

Emil Kichev, *Head, Risk Management Section, Technical Support Department, Kozloduy NPP*
 Matti Paljakka, *Key Account Manager, Energy, VTT*

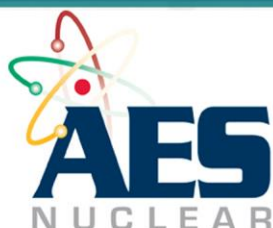
Exclusive Pre-Conference Site Visit



During the afternoon of Tuesday 15th November 2016, a limited number of conference attendees will have the unique opportunity to visit the The Materials Ageing Institute. The Institute is a utility-oriented research center founded by EDF in 2008 and cofinanced by EPRI (US), KEPCO (J), CGNPC (CN), REA (RU), EDF Energy (UK), TEPCO (J), MHI (J), CRIEPI(J), CEA (F) and Areva (F).

There is no extra charge to join the site visit, but spaces are limited and allocated on first come first served basis. Please register your attendance when booking for the conference.

Commercial Partners:



The Conference:

ACI's **Nuclear Power Plant Life Management & Extension 2016** will address the key issues faced by the industry associated with NPP's life management and extension: LTO and age management programs and techniques, implementation of environmental standards, I & C systems and avoidance strategies for force shutdown.

Join us on **16 - 17 November 2016** in **Paris, France** to hear also about R & D in component behaviour and integrity, best practices of applying safety principles and concepts in preparation for licence extension and discuss the challenges industry is facing keeping maintenance and operational cost down.

Topics for Discussion:

- Contribution of nuclear energy to EU energy mix
- Evaluation of nuclear power plant management and life extension
- Environmental & safety standards
- Public concerns for ageing nuclear power plants
- Risk assessment for aging nuclear power plants
- Ongoing challenges of NPPs maintenance
- Financial & economic framework
- Workforce development in nuclear industry
- Challenges of licence extension
- Nuclear power plant Long-Term Operations
- Public Concerns for aging nuclear power plants

Call For Papers

If you would like to be considered as a speaker at the event for a 30-45 minute presentation, please submit an abstract for consideration to:

Stergios Zacharakis: +44 203 141 0609

szacharakis@acieu.net



Who Will Attend?

- Head of Operations
- Technical Directors
- Aging Management/Aging Specialists
- Plant Life Extension Managers/Specialists
- Plant Life Management Managers/Specialists
- Technical Engineers
- Asset Managers
- Associations Representatives
- Regulatory and Policy Officers
- Solution Providers
- Consultants

Commercial & Sponsorship Opportunities



With leading companies and organisations from the Nuclear Energy Industry attending and speaking at our event, we have the perfect vehicle to provide outstanding exposure to a senior level audience.

There are various sponsorship packages available, including sponsorship of a cocktail reception on the first evening of the event and sponsorship of a networking lunch. For further details, please contact:

Ray Mangon: +44 203 141 0610

raym@acieu.net

Registration is Simple:

If you would like to be to register for this event or wish to find out more information, please contact

Mado Lampropoulou +44 203 141 0607

mlampropoulou@acieu.net

DAY 1

Wednesday 16th November 2016

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

Otso Cronvall
Research Scientist
VTT

09:15 **CONFERENCE PRESENTATION**

Status and Trends of Nuclear Power in the World

- Global overview of power plant data on operation, capacity, production, age, etc.
- Nuclear new-build - Construction starts and building times
- China and the rest of the world?
- Nuclear power versus its new competitors



Mycle Schneider
Independent Analysis on Energy and
Nuclear Policy
Mycle Schneider Consulting

09:45 **Q&A**

10:00 **KEYNOTE ADDRESS**

LTO under the Perspective of the Euratom Nuclear Safety Regime

- Recent evolution and essential reinforcement in the safety requirements to operate plants beyond 40 years
- Post Fukushima updates in terms of safety and stress tests
- Implementation of new safety technologies to overcome delays in getting extension licence
- Analysing the environmental impact on licence extension



Michael Kuske
Acting Head of Unit ENERD.3 –
Radiation Protection and Nuclear Safety
European Commission DG ENER

10:30 **Q&A**

10:45 **MORNING REFRESHMENTS**

11:15 **PANEL DISCUSSION**

What Can Operators Do to Efficiently Advance in Longer than Expected NPP Lifetime?

Representatives from a leading utilities/operators discuss plant life extension and efficiently planned plant refurbishment based on consistent investment works with the audience. Main topics will include:

- Obsolescence management and supplying the original equipment designed before the current data.
- Benchmarking and selecting best methods and practices to fulfil safety, technical tests, measurements, assessments and evaluations of risks
- Set up regime for LTO from the beginning: a lesson for utilities new into nuclear
- Stakeholders' management under energy price volatility for energy companies/utilities

Mark Droesbeke
Head of Corporate Nuclear Department
Eng.Programs & Reliability
ENGIE-Electrabel

Helen Rycraft
Senior Safety Officer
International Atomic Energy Agency

Otso Cronvall
Research Scientist
VTT

11:45

Q&A and Panel Discussion

12:15

CONFERENCE PRESENTATION

Managing Obsolescence Risk in Long Life Systems to Extend Operational Life

- What is obsolescence risk and its effect in the Nuclear Industry?
- How to analyse and understand obsolescence risk using processes and tools?
- How to mitigate and reduce obsolescence risk?
- Show a Return on Investment for implementing proactive Obsolescence Management on a Nuclear Power Plant



Stuart Kelly
MD, Through Life Support Ltd &
President, International Institute
Of Obsolescence Management

12:45

Q&A

13:00

NETWORKING LUNCH

14:10

CONFERENCE SESSION

Long Term Operation and Repair/Replacement Strategy

- The importance of safe and economic operation of existing plants
- Risk Assessment for aging nuclear components and structures

- Ongoing challenges of plant maintenance
- Application to key systems upgrading, including I&C



Jerome Lonchampt
Research Engineer
EDF



Sam Harvey
Principal Technical Leader, Plant
Technology
Electric Power Research Institute



Thomas Esselman
Principal
LPI

15:40

Panel Q&A

16:00

AFTERNOON REFRESHMENTS

16:30

CONFERENCE SESSION

Equipment Reliability: How to Keep the Plant Operating

- Damage of machinery vs safety of operation
- Reactor Pressure Vessel, fuel channels and steel constructions: Facing deforming, fatigue and erosion due to radiation
- Containment concrete degradation, component degradation and ageing management challenged

16:30

Presentation title to be confirmed

Mark Dreesbeke
Head of Corporate Nuclear Department
Eng.Programs & Reliability
ENGIE-Electrabel

17:00

LTAIP; A field proven Effective and Efficient Long Term Asset Investment Process

- Long term replacement forecasting by condition classification
- A one size fits all condition based prediction model
- Implementation of lines of sight and prediction in alignment with ISO 19.600 and 15686
- Aligning Strategic top-down with maintenance bottom-up requirements.



Geert Henk Wijnants
Principal Consultant
Stork Asset Management
Consultancy

17:30

Panel Q&A

17:45

CLOSE OF DAY ONE

DAY 2

Thursday 17th November 2016

08:30

REGISTRATION & COFFEE

09:00

CHAIRMAN'S OPENING REMARKS



Gareth Davies
UK Nuclear Expert

09:10

CONFERENCE PRESENTATION

Workforce Development in Nuclear Industry

- Do the recent nuclear plant closures bringing overall staffing levels down?
- People experience transition to new generation of workers
- Investing in the right skills and best training practices



Claudine Robson
Partner
CTL Consult

09:40

Q&A

09:55

CONFERENCE SESSION

Case Studies: Challenge to Be Faced During Life Extension License Application Process

Case Study: Leveraging Supply Chain Assets and Relationships to Support Long Term Operations (LTO) and Plant Life Extension (PLEX)

- Overview of Nuclear Power PLEX, LTO and EPU in the U.S.
- Overview of Timken Power Systems (TPS) and Associated Nuclear Related Companies - Schulz Electric and Philadelphia Gear
- Leverage of TPS Supply Chain Assets of Schulz Electric and Philadelphia Gear to Supply Safety Related Gearbox for NPP Cooling Towers
- Aligning NPPs and Suppliers to Support LTO and PLEX



James M. Dean
President
AES Nuclear, Inc.



In-Depth & Informative Formal Presentations

10:25

Demonstration of fatigue for LTO license of NPP Borssele

- LTO fatigue programme of NPP Borssele in the Netherlands
- Demonstration of fatigue TLAAAs
- Fatigue management during LTO, coupling load monitoring, transient counting and fatigue assessment



Marieke Hannink
Senior Fatigue Expert
NRG

10:55

Panel Q&A

11:10

MORNING REFRESHMENTS

11:40

CONFERENCE SESSION

Addressing the Licence Extension from the Regulatory Perspective

Nuclear energy as the entire energy sector is heavily dependent on political decision making. An interactive debate on regulatory strategies for a secure PL extension; panellists will consider current policies on safety and suggest which authority will rule the extension standards. We will also consider the experiences in licensing of service life extension of NPPs in an interactive debate between regulators, consultants and operators.

11:40

Regulatory Approach to LTO in the Slovak Republic

- LTO Legal Requirements in Slovakia
- LTO Licensing Steps
- Current Status of V-2 Bohunice NPP



Marta Ziakova
Chairperson
Nuclear Regulatory Authority
of the Slovak Republic

12:00

Presentation title to be confirmed

Matthieu Schuler
Director of Strategy, Development and Partnerships
IRSN

12:20

Q&A and Panel Discussion

12:50

NETWORKING LUNCH

14:00

CONFERENCE SESSION

Collaborative R&D to Support LTO

- Innovation in NDT techniques
- Innovations needed for LTO and software developments
- Opportunities for NPP innovation facing obsolescence of equipment
- New reactors technology design advantages
- Technologies for use in high-radiation areas

14:00

Presentation title to be confirmed

Peter Haehner
Head of the Unit Nuclear Safety & Security
EC JOINT RESEARCH CENTRE

14:20

Presentation title to be confirmed

Regis Nhili
MAI Director
EDF - R&D
Materials Ageing Institute (MAI)

14:40

Presentation title to be confirmed



John Brear
Director
John Brear Plant Integrity

15:00

Retrofited Emergency Power System



Gerard Van Zeijl
General Manager
Santon Circuit Breaker Services

15:20

Panel Q&A

15:50

CHAIRMAN'S CLOSING REMARKS

16:00


END OF THE CONFERENCE & AFTERNOON REFRESHMENTS



Knowledge Sharing During Informal Panel Discussions


Registration Is Simple

If you would like to register for this event or wish to find out more information, please contact **Mado Lampropoulou** using any of the following methods:

 +44 (0)20 3141 0607

 MLampropoulou@acieu.net

 <http://www.acieu.net>

 Postal Address:
ACI Europe, 5/13 Great Suffolk Street, London, SE1 0NS

Registration Is Simple

Conference (Includes Documentation Packet)

16-17 November 2016

£1,495.00
(ex. VAT)

Documentation Packet Only

£420.00

Please Note.

Members and customers of all supporting organizations are entitled to a discount off their conference package.

For more information please call Claire on +44 (0) 203 141 0607

Documentation Packet Available

We are selling the Nuclear Power Plant Life Management & Extension 2016 papers at just £395 (+£25 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

About ACI

ACI, a UK owned company, have been running successful conferences for the last 15 years in the USA. Headquartered in Chicago with offices all around the States, they run forums in varied fields and are market leaders in healthcare business conferences. Opening their European head office at the end of 2005, they have expanded rapidly and are launching a series of events covering the maritime, energy, oil and gas industries.

With Thanks to Our Supporting Partners



Nuclear.Ru



Special Registration Discount

Members and customers of all supporting organizations are entitled to a discount off their conference package.

Terms & Conditions

Payment

Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

Discounts are available for multiple/group bookings. Please call **+44 (0)20 3141 0607** for more information.

Cancellations

Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three weeks before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone this conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants. In the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.