

# DELIVERING ONSITE NUCLEAR PROJECTS: ON TIME AND ON BUDGET

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4 AUGUST 2017

Institution of  
**MECHANICAL  
ENGINEERS**

Nuclear Power Committee,  
Power Industries Division  
**Conference**

**26–27 September 2017**

Renaissance Manchester City Centre Hotel,  
Manchester

## KEY SPEAKERS INCLUDE:

Timothy Johnson, Ops Manager,  
Investment Delivery  
**EDF Energy Generation**

Phil Kruse, Environmental Technical Manager &  
Radioactive Waste Adviser  
**NNB Generation Company, EDF Energy**

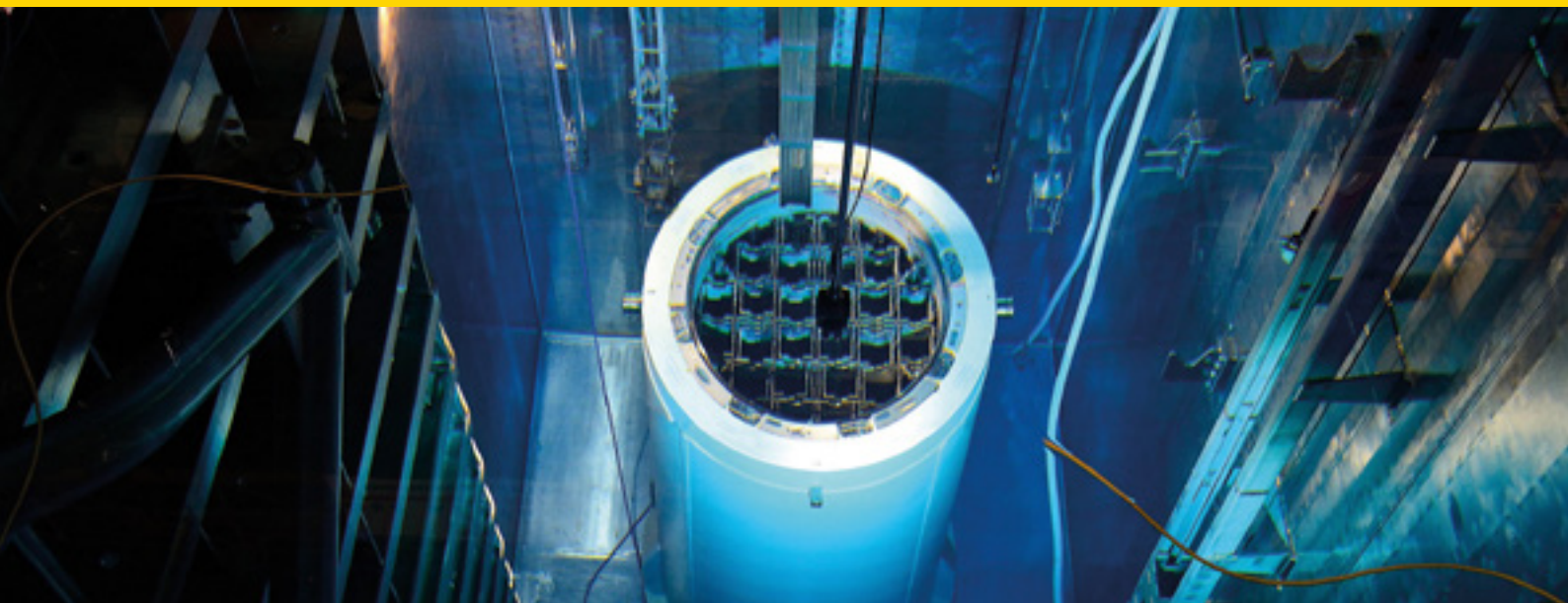
Tim Cook, Major Projects and Programme Manager  
(PFCS and Infrastructure)  
**Nuclear Decommissioning Authority**

Craig Lavender, Head of EPR Regulation – New  
Reactors Programme  
**Office for Nuclear Regulation**

Ann McCall, Waste Management Director  
**Radioactive Waste Management Ltd.**

Paul Dundee, Project Manager  
**Magnox Ltd.**

Ron Hibbert, DSRL Senior Project Manager  
**Dounreay Site Restoration Ltd.**



## SUPPORTING ORGANISATIONS:



## EVENT PARTNER:



Save 10% before 4 August 2017 [www.imeche.org/nuclearprojects2017](http://www.imeche.org/nuclearprojects2017)

# DELIVERING ONSITE NUCLEAR PROJECTS: ON TIME AND ON BUDGET

26–27 September 2017, Renaissance Manchester City Centre Hotel, Manchester

**AS ONE OF 15 COUNTRIES DEVELOPING NUCLEAR ENERGY, THE UK INDUSTRY IS INVESTING £37 BILLION INTO NUCLEAR NEW BUILD. AS NEW PROJECTS ARE UNDERTAKEN, IT IS ESSENTIAL THAT THE NUCLEAR ENGINEERING COMMUNITY LEARNS THE LESSONS FROM EXISTING SITES AND DECOMMISSIONING PROGRAMMES.**

Delivering Onsite Nuclear Projects conference will provide attendees with best practice and successful strategies to shape new projects while reducing time and cost.

This is a unique opportunity to hear from the **Office for Nuclear Regulation** and the **Nuclear Decommissioning Authority**, who will provide guidance on current regulation and outline future plans for nuclear projects in the UK.

Understand how engineers at Flamanville 3 are enhancing the operational lifespan of its reactor and how this could impact the Hinkley Point C project. Hear how Mammot overcame technical challenges that were required to successfully finish the New Safe Confinement at Chernobyl.

Benefit from the opportunity to join those shaping the future of the nuclear industry across the UK and Europe.

## KEY PROGRAMME HIGHLIGHTS:

- Hear from **NNB Generation Company, EDF Energy** about their plans to design Hinkley Point C to reduce waste generation
- Learn directly from the **Nuclear Decommissioning Authority** about managing the UK's Nuclear legacy
- Gain insight into current regulation from the **Office for Nuclear Regulation** and their plans for regulating Nuclear New Build
- Get an exclusive update from **Radioactive Waste Management Ltd.** regarding the progress on the UK's first British High-active Waste Repository
- Listen as **EDF Energy Generation** share insights about the UK's first Dry Fuel Store Project at Sizewell B

## ATTEND THIS EVENT TO:

- Network with **project directors and managers, architects and designers** from **licensees and operators** as well as key contractors and suppliers
- Gain lessons learned from projects implemented by key licensees and operators including **NNB Generation Company, EDF Energy, Dounreay Site Restoration Ltd., Magnox Ltd., NuGeneration Ltd., EDF Energy Generation and Horizon Nuclear Power**
- Hear direct from the regulators regarding current requirements to ensure your projects are compliant
- Learn how to improve your systems with cross-sector learning from the non-power generation nuclear sessions
- Gain new planning and implementation methods through case studies from decommissioning organisations

## NAME OF COMMITTEE:

Nuclear Power Committee

## ORGANISING COMMITTEE:

Roger May, Independent Consultant  
**Magnox Sites Ltd.**

Will Machin, Engineering Manager,  
**NuGeneration Ltd.**

Mark Shannon  
Project Management Office  
**United Kingdom Atomic Energy Authority**

BOOK YOUR PLACE TODAY  
[WWW.IMECHE.ORG/NUCLEARPROJECTS2017](http://WWW.IMECHE.ORG/NUCLEARPROJECTS2017)

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# PROGRAMME

TUESDAY 26TH SEPTEMBER	
08:30	REGISTRATION AND REFRESHMENTS
09:00	<b>CHAIR'S OPENING REMARKS</b> Roger May, Independent Consultant, Magnox Sites Ltd.
<b>NUCLEAR NEW BUILD: DESIGN AND CONSTRUCTION</b>	
09:10 Keynote	<b>LESSONS FROM DESIGN: REDUCING THE ENVIRONMENTAL IMPACT OF A NEW NUCLEAR POWER STATION</b> Phil Kruse, Environmental Technical Manager & Radioactive Waste Adviser, NNB Generation Company, EDF Energy
09:40	<b>REGULATING THE CONSTRUCTION OF NEW NUCLEAR POWER PLANTS</b> Craig Lavender, Head of EPR Regulation – New Reactors Programme, Office for Nuclear Regulation
10:05	<b>DEVELOPING MOMENTUM TO DELIVER WYLFA NEWYDD</b> Calum Powrie, Safety Case Manager, Technical, Horizon Nuclear Power
10:30	<b>QUESTIONS AND ANSWERS SESSION</b>
10:45	NETWORKING REFRESHMENT BREAK
11:15	<b>DELIVERING NUCLEAR NEW BUILD PROJECTS: REGULATORS' WORK AND PROGRESS</b> Alan McGoff, Lead New Nuclear Build, Environment Agency
11:40	<b>NUGENERATION LTD.: SITE CHARACTERISATION</b> Matt Waddicor, Site Characterisation Project Manager, NuGeneration Ltd.
<b>DELIVERING DECOMMISSIONING PROJECTS</b>	
12:05	<b>MAMMOET: INSTALLATION OF THE NEW SAFE CONFINEMENT AT CHERNOBYL</b> Erik Kroes, Operations Manager Special Devices, Mammoet Europe
12:30	<b>QUESTIONS AND ANSWERS SESSION</b>
12:45	NETWORKING LUNCH
13:45 Keynote	<b>MANAGING THE UK'S NUCLEAR LEGACY</b> Tim Cook, Major Projects and Programme Manager (PFCS and Infrastructure), Nuclear Decommissioning Authority
14:15	<b>DOUNREAY FAST REACTOR FINAL FUEL REMOVAL</b> Ron Hibbert, DSRL Senior Project Manager, Dounreay Site Restoration Ltd.
14:40	<b>LESSONS LEARNED IN THE DESIGN AND DELIVERY OF THE WYLFA ACTIVE EFFLUENT DISCHARGE LINE (AEDL)</b> Paul Dundee, Project Manager, Magnox Ltd.
15:05	<b>QUESTIONS AND ANSWERS SESSION</b>
15:20	NETWORKING REFRESHMENT BREAK
15:50	<b>A NOVEL APPROACH TO SUBMARINE DISMANTLING</b> Michael Donnington, Programme Manager, Babcock International
16:15	<b>QUESTIONS AND ANSWERS SESSION</b>
16:20 Panel Discussion	<b>GRASPING LESSONS LEARNED FROM DECOMMISSIONING PROJECTS TO AID THE NUCLEAR NEW BUILD INDUSTRY</b> Paul Dundee, Project Manager, Magnox Ltd. Tim Cook, Major Projects and Programme Manager (PFCS and Infrastructure), Nuclear Decommissioning Authority
16:55	<b>CHAIR'S CLOSING REMARKS</b>
17:00	<b>END OF DAY ONE AND NETWORKING DRINKS RECEPTION</b>

**For the most up-to-date and detailed programme for the event, please visit:**  
[www.imeche.org/nuclearprojects2017](http://www.imeche.org/nuclearprojects2017)

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

# PROGRAMME

WEDNESDAY 27TH SEPTEMBER	
08:30	REGISTRATION AND REFRESHMENTS
09:00	<b>CHAIR'S OPENING REMARKS</b> Roger May, Independent Consultant, Magnox Sites Ltd.
	<b>WASTE MANAGEMENT</b>
09:10 Keynote	<b>CONSTRUCTING THE BRITISH HIGH-ACTIVE WASTE REPOSITORY</b> Ann McCall, Waste Management Director, Radioactive Waste Management Ltd.
	<b>CONSTRUCTION AND PLANNING FOR GENERATING PLANTS</b>
09:40	<b>SIZEWELL B (SZB) DRY FUEL STORE PROJECT: SECURING SIZEWELL'S FUTURE</b> Timothy Johnson, Ops Manager, Investment Delivery, EDF Energy Generation Andrew MacDonald, Architect Engineer SZB Dry Store Project, Plant Engineering Branch, Central Technical Organisation, EDF Energy Generation
10:05	<b>LESSONS LEARNED ON MODULAR CONSTRUCTION PROJECTS</b> Rob Phillips, Nuclear Sector Director, Costain
10:30	<b>QUESTIONS AND ANSWERS SESSION</b>
10:45	NETWORKING REFRESHMENT BREAK
	<b>LATEST NUCLEAR TECHNOLOGIES</b>
11:15	<b>THE EPR AT FLAMANVILLE 3: ENSURING LONG LIFE FOR THE ASSET</b> Gilles Rousseau, Mechanical Senior Engineer, EDF Centre National d'Equipeement Nucléaire
11:40	<b>INSIDE AWE AND ITS FACILITY PROJECTS</b> Bruce Cletheroe, Group Leader, Design Engineering, Sites and Assets, AWE
12:05	<b>DREADNOUGHT SUBMARINE PROGRAMME: PUTTING MODERN NUCLEAR PLANT ON A SUBMARINE</b> Simon Barnes, Chief Engineer PWR3, Rolls-Royce Submarines
12:30	<b>QUESTIONS AND ANSWERS SESSION</b>
12:45	NETWORKING LUNCH
13:45	<b>LESSONS LEARNED FROM NUCLEAR INFRASTRUCTURE PROJECTS IN ROLLS-ROYCE</b> Representative, Rolls-Royce Nuclear
14:10	<b>QUESTIONS AND ANSWERS SESSION</b>
14:15 Panel Discussion	<b>PLANNING NUCLEAR PROJECTS INTO THE FUTURE</b> Roger May, Independent Consultant, Magnox Sites Ltd.
14:55	<b>STATUS OF SMALL MODULAR REACTORS IN THE UK</b> Mike Middleton, Strategy Manager for Nuclear, Energy Technologies Institute
15:20	NETWORKING REFRESHMENT BREAK
15:50	<b>MANUFACTURING REACTOR PRESSURE VESSEL (RPV) FOR A SMALL MODULAR REACTOR (SMR)</b> Keith Bridger, Professor of Welding Engineering Practice, Nuclear AMRC
16:15	<b>ENGINEERING THE UPGRADE OF MEGA AMP SPHERICAL TOKAMAK (MAST): THE UK'S SPHERICAL TOKAMAK</b> Mark Shannon, Project Management Office, United Kingdom Atomic Energy Authority
16:40	<b>QUESTIONS AND ANSWERS SESSION</b>
16:55	<b>CHAIR'S CLOSING REMARKS</b>
17:00	<b>END OF CONFERENCE</b>

BOOK EARLY AND **SAVE UP TO 10%**  
**OFFER ENDS 4 AUGUST 2017**

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## WHO SHOULD ATTEND?

- Design Engineer
- Facility Operator
- Project Manager
- Site Manager
- Head of Facilities
- Specialist Inspector
- Operations Engineer
- Maintenance Engineer
- Operational Risk Manager
- On-site Delivery Manager
- Nuclear Projects Business Manager
- Programme Manager
- Project Engineer
- Nuclear Safety Consultant
- Facility Safety Engineer
- Safety Assessment Engineer
- Reliability Engineer
- Fuel Route Engineer
- Safety Case Engineer
- Safety Case Manager

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## FEEDBACK FROM PREVIOUS EVENT:

**“AN EXCELLENT OPPORTUNITY TO KEEP UP TO DATE WITH CURRENT NUCLEAR INFRASTRUCTURE ISSUES AND MAINTAIN CONTACT WITH PROFESSIONAL COLLEAGUES. THANK YOU IMECHE TEAM: A VERY VALUABLE AND INTERESTING CONFERENCE, WELL ADMINISTERED AND ORGANISED”**

Senior Engineer  
Nuclear Infrastructure, MoD

**“AN EXCELLENT COMBINATION OF TECHNICAL KNOWLEDGE AND ORGANISATION LEARNING POINTS”**

Magnox

**“INTERESTING SPEAKERS AND TOPICAL DEBATES - WELL WORTH ATTENDING”**

Bid Manager  
Balfour Beatty

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## SPONSORSHIP AND EXHIBITION OPPORTUNITIES

### CREATE A BESPOKE STRATEGY THAT PLACES YOUR COMPANY IN FRONT OF SENIOR DECISION MAKERS

#### **Engage face to face with your target market of senior engineers**

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Use high-profile sponsored speaking platforms or focused technical workshops to effectively demonstrate your skills and expertise within a chosen sector

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Capture contact data from our highly qualified delegates to fuel your sales teams

#### **CONTACT THE SPONSORSHIP TEAM ON:**

T: +44 (0)20 7973 1309

E: [sponsorship@imeche.org](mailto:sponsorship@imeche.org)



## HOW TO BOOK YOUR PLACE

### FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Fees and charges	Early Bird Rates until 4 August 2017	Standard Rates
Member, IMechE/supporting organisation	£465 + VAT	£550 + VAT
Non-member	£555 + VAT	£650 + VAT

### THREE WAYS TO BOOK

1 Online:  
[www.imeche.org/  
nuclearprojects2017](http://www.imeche.org/nuclearprojects2017)

2 Email:  
[eventenquiries@imeche.org](mailto:eventenquiries@imeche.org)

3 Phone:  
+44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

#### CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

#### SPECIAL REQUIREMENTS

Please inform us of any special requirements, ie dietary or access, on the relevant section of the booking form or email [eventenquiries@imeche.org](mailto:eventenquiries@imeche.org)

#### Cancellation

For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend

on the rescheduled date, they will receive a full refund of the fee paid. The Institution is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

#### LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

#### CONFERENCE VENUE

Renaissance Manchester City Centre Hotel  
Blackfriars Street  
Manchester  
M3 2EQ

## SPONSORSHIP & EXHIBITION OPPORTUNITIES

### GET INVOLVED

Attending this event as either an exhibitor or sponsor will give you the opportunity to display your solutions, services and products to the right people at the right time.

### BENEFITS OF SPONSORING

- **Showcase** new products
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- **Improve** perception of your brand
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We are the market leader among professional engineering bodies. We've been supporting engineers since 1847 and have 113,000 members in over 140 countries, working in the world's most dynamic and important industries. Our comprehensive events programme brings you the latest research and best practice from industry and academia.

### OTHER EVENTS TO LOOK FOR



### SIMULATION AND MODELLING 2017

**12-13 September 2017, Birmingham**

A unique two-day event with thought-provoking industry discussions on utilising simulation and modelling to drive down costs, reduce inefficiencies and eradicate costly prototypes across multiple engineering industries.

[www.imeche.org/simulation2017](http://www.imeche.org/simulation2017)



### HEAT RECOVERY STEAM GENERATOR USER GROUP 2017

**21-22 November 2017,  
Nottingham Belfry Hotel**

Join this user group to share the latest technical insights and network with designers, OEMs and operators of heat recovery steam generator assets.

[www.imeche.org/hrsg](http://www.imeche.org/hrsg)

The Institution of Mechanical Engineers organises over 120 events a year, including free-to-attend lectures as well as conferences, seminars, annual luncheons and dinners. Please visit [www.imeche.org/events](http://www.imeche.org/events) for the complete list of events.

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